



MASSACHUSETTS BAYS PROGRAM

FY10 Annual Work Plan



July 1, 2009 to June 30, 2010

Commonly Used Acronyms

8T&B	Eight Towns & the Bay Committee
APCC	Association to Preserve Cape Cod
CCMP	Comprehensive Conservation and Management Plan
CRC	Coastal Resources Committee (Barnstable County)
CRE	Climate Ready Estuaries
CZM	Office of Coastal Zone Management
DCR	Department of Conservation and Recreation
DEP	Department of Environmental Protection
DMF	Division of Marine Fisheries
DNR	Department of Natural Resource
EEA	Executive Office of Energy & Environmental Affairs
EPA	Environmental Protection Agency
GOM	Gulf of Maine
GOMC	Gulf of Maine Council
LID	Low Impact Development
MAS	Massachusetts Audubon Society
MBEA	Massachusetts Bays Estuary Association
MBP	Massachusetts Bays Program
MET	Massachusetts Environmental Trust
MIT	Massachusetts Institute of Technology
MVPC	Merrimack Valley Planning Commission
MAPC	Metropolitan Area Planning Commission
MWRA	Massachusetts Water Resources Agency
NDA	No Discharge Area
NEANS	Northeast Aquatic Nuisance Species
NEP	National Estuary Program
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NPS	Non-point source pollution
NSRWA	North and South Rivers Watershed Association
QAPP	Quality Assurance Project Plan
RPA	Regional Planning Agency
RSP	Regional Service Provider
SSCW	Salem Sound Coastwatch
TNC	The Nature Conservancy
UNH	University of New Hampshire
USFWS	United States Fish & Wildlife Service
WQ	Water quality
WRP	Wetlands Restoration Program

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A. General Information

1. Foreword

The Massachusetts Bays Program (MBP), its Management Committee, and partners have developed the following Work Plan and Grant Application to serve as a comprehensive guide for the program's activities over the next fiscal year (federal FY09; state FY10). The MBP annual Work Plan is based on a recently completed three year Strategic Plan (2009-2012), which, in-turn, is based on the Comprehensive Conservation and Management Plan (CCMP), the overarching guide for the program. The Work Plan outlines planned objectives, tasks, and a budget for the coming year, highlights successes from the previous year's activities, and describes the role of staff and key partners who will serve as leads for many of the actions described in the following pages.

The Work Plan outlines eleven priority objectives for the coming fiscal year (see section 2 below). Eight of these objectives lead to actions that will produce significant environmental results in the region in areas such as stormwater management, habitat protection, and marine invasive species. The remaining three objectives outline the program's approach to strengthening the visibility and effectiveness of MBP, thereby enhancing our capacity to achieve measurable environmental benefits.

Responsibility for implementing the Work Plan will fall to MBP staff, its Management Committee, and Regional Service Providers (RSPs) whose services are secured through a Request for Proposals. The function of the RSPs is to work with local stakeholders and advisory groups representing MBP constituents to prioritize and implement MBP program efforts based on the CCMP. Once the RSPs are selected, MBP staff and Management Committee will work to develop scopes of work, tasks, and outputs that are consistent with the Work Plan. Note that in some cases, outputs described in the Work Plan are to be refined in conjunction with RSPs and their local constituencies once contracts are in place.

MBP looks forward to another successful year of achieving positive and significant environmental results for Massachusetts and Cape Cod Bays. We are indebted to our Management Committee, our primary funder, the Environmental Protection Agency, and other partners for their continued support in this planning process and Work Plan implementation. For more information please contact:

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2. Objectives for the coming year

The following objectives are articulated in the MBP Interim Strategic Plan for 2009 - 2012. Note that Objectives A1-A7 are the program's priority action areas identified in the 2003 update of the CCMP. Objective A8 is a new objective of the Strategic Plan.

Goal A: Producing significant environmental results in the MBP region

Objective A1: Protect and enhance coastal habitat

Objective A2: Reduce and prevent stormwater pollution

Objective A3: Protect and enhance shellfish resources

Objective A4: Manage local land use and growth

Objective A5: Manage municipal wastewater

Objective A6: Manage marine invasive species

Objective A7: Monitor marine waters

Objective A8: Adapt for projected impacts of climate change

Goal B: Building organizational effectiveness

Objective B1: Strengthen the identity and influence of the MBP

Objective B2: Identify and pursue alternative funding

Objective B3: Ensure effectiveness of MBP structure for managing implementation

3. Highlights of successes from the past year

Protect and enhance coastal habitat

- A manual for assessing coastal wetland health is being completed in cooperation with the state Office of Coastal Zone Management and EPA's Atlantic Ecology Division; in May, training will be given to thirty members of the New England Biological Assessment of Wetlands Working Group on its use.
- New fish run monitoring began in Sandwich, Wellfleet, Chatham, and Harwich, complementing existing programs in Brewster, Orleans, Pembroke, Marshfield, Norwell, and Hanover.
- A new fish ladder was installed at Upper Shawme Pond in Sandwich.
- Volunteers were involved in water quality monitoring in Manchester.
- Three salt marshes in the Salem Sound area were monitored to assess salinity, vegetation, nektons, and macroinvertebrates.
- Pepperweed was removed from four sites in the Salem Sound region, and an outreach poster was developed and distributed.
- Shellfish monitoring was initiated at Mill Pond in Gloucester to establish pre-restoration data on the health of a tidal wetland.
- Permitting was completed for a 5-acre restoration project at the Thissell Marsh in Beverly. The current economic situation has put the project on hold temporarily until Endicott College frees up money to relocate the tennis courts that will be removed as part of the restoration effort.
- Removal of *Phragmites* was carried out in the Great Marsh, both by mechanical and chemical means; an assessment of *Phragmites* ecology and its impact on the marsh is ongoing.
- Data are being collected to inform decisions about the status and management of tide gates in Cohasset's Little Inner Harbor and Marshfield's Green Harbor to address problems arising due to tidal restriction.

Reduce and prevent stormwater pollution

- Stormwater financing workshops were held on Cape Cod (January) and the North Shore (April).
- As a result of the workshop on Cape Cod, the Town of Yarmouth has applied for funding to conduct a "Does It Make Sense" feasibility study for setting up a municipal stormwater utility. MBP's Cape Cod coordinator/APCC will provide some in-kind technical assistance

- Eleven rain gardens were completed on the South Shore.
- Several Greenscapes workshops were held for homeowners and landscape professionals.
- Over 100,000 Greenscapes guides were distributed; a calendar for 2009 is being printed.
- Stormdrain marking was carried out in several communities in Salem.
- In the Salem Sound region, water quality (bacteria) was tested at 27 sites; high readings at 5 sites were reported to municipal agents.

Protect and enhance shellfish resources

- Fecal coliform data was collected on the South Shore to inform management decisions about shellfish bed closures.

Manage local land use and growth

- Design and construction of the Peabody Street park on the South River in Salem was initiated.
- Grant received to renovate and improve Furlong Park along the North River in Salem.
- The MBP's Cape Cod coordinator is assisting the Town of Falmouth on pre-disaster mitigation plan development as part of CZM's StormSmart Coasts pilot initiative.

Manage wastewater

- In this reporting period, NDA designations were given to Cape Cod Bay, Salem Sound, the Lower North Shore, and the South Shore.
- Numerous outreach pieces (posters, brochures, presentations) were developed to educate boaters about NDAs and about pumpout options.
- A video on the impact of septic systems on shellfish beds was produced and distributed to local cable TV stations in 2008.

Manage marine invasive species

- A revised version of Marine Invasive Species cards was developed.
- Salem Sound partners participated in the international SETL project, collecting data on fouling organisms in temperate marine waters.
- MBP staff assisted on revision of bylaws and workplan development for the Northeast Aquatic Nuisance Species Panel.

Monitor marine waters

- MBP staff developed a database of toxic contaminants found in Blue Mussels as part of the Gulfwatch program and uploaded it to Gulf of Maine Council server.
- National Coastal Assessment standards for sediments were developed.
- Marine monitoring took place in Little Inner Harbor (Cohasset), Masquashcut Pond (Scituate), Green Harbor (Marshfield), Mill Pond (Gloucester), and Straits Pond (Hull, Hingham, Cohasset).

Adapt for projected impacts of climate change

- MBP is hosting one of the Climate Ready Estuaries pilot projects, this one focusing on an assessment of the salt marsh ecosystem to climate-driven vulnerability.
- A draft scope of work for an MBP climate advisory group was developed.
- In March, MBP co-hosted and presented at a workshop on the North Shore targeting0 municipalities and focusing on sea level rise and adaptation options.
- A new and discrete objective focused on climate change was written into the MBP Strategic Plan and annual work plan.
- A proposal was developed to fund mapping and monitoring of coastal embayments on Cape Cod where salt marsh retreat can occur as sea level rises.

Strengthen the identity and influence of the MBP

- The Stephan Gersh Award was presented to Russ Vickers for his tireless contributions supporting the health of the Salem Sound watershed.
- In February, and on behalf of the MBP, representatives from the program's host (Massachusetts Office of Coastal Zone Management) made legislative outreach visits to congressional representatives in Washington D.C.
- An assessment of the needs of regional service providers was initiated to inform the development of a new communications strategy and plan.
- MBEA was actively engaged in promoting the Greenscapes program, reaching over 50,000 people at five special events throughout the MBP region and state.

Identify and pursue alternative funding

- As reported in NEPORT, during federal FY08, the MBP leveraged a total of \$3,765,018 in funds. Of these, 70% were cash and 30% were in-kind. Contributing were federal and state agencies (29% each), local sources (24%), and private sources (18%). MPB played a primary role in leveraging 71% of these funds, a significant role in leveraging 18%, and a supporting role in leveraging the remaining 10%. The following is a breakdown of leveraged funding by the MBP priority action categories:

• Protecting and Enhancing Coastal Habitat	38%
• Managing Local Land Use and Growth	24%
• Enhancing Public Education	9%
• Managing Boat Wastes and Marina Pollution	5%
• Reducing Beach Debris and Marine Floatables	4%
• Reducing and Preventing Stormwater	3%
• Marine Monitoring	2%
• Preventing Marine Invasives	2%
• Managing Municipal Wastewater	1%
• Combination / Other	12%

Ensure effectiveness of MBP structure for managing implementation

- In September, the MBP filled the Outreach and Policy Coordinator position, and in February, the MBP welcomed a new Director.
- MBP successfully prepared for and "passed" the triennial Program Evaluation.
- A small group of staff, Management Committee members, and partners developed a set of draft bylaws to govern the Management Committee.
- An interim three-year Strategic Plan was completed for the period 2009-2012.
- A request for proposals was issued soliciting regional service providers for the next 1-3 years.
- The Cape Cod Coastal Resources Committee was reconvened after several dormant years; regular meetings are now ongoing; a mission statement and workplan were developed.
- The Eight Towns & the Bay Committee continues to meet to discuss issues relating to the MBP's Upper North Shore region.

4. Budget

a) Anticipated Budget for State Fiscal Year FY10

<i>Category</i>	<i>\$320 funds</i>
Personnel	
– Director: Annual Salary	70,312
– Outreach and Policy Coordinator: Annual Salary	55,729
– Fringe @ 26.21	33,035
Total Personnel	159,076
Contractual	
– Marine Scientist	57,300
– Regional Service Providers	239,000
Total Contractual	296,300
Other Charges	
– Indirect Charges @ 25.74% (personnel and contractual)	108,711
– Payroll Tax @ 1.38% (personnel and Marine Scientist)	2,530
Total Other Charges	111,241
Other Expenses	
– Travel	8,000
– Other (printing, IT, supplies, etc.)	25,383
Total Other Expenses	33,383
GRAND TOTAL	\$600,000

b) Anticipated Match

<i>Category</i>	<i>Match funds</i>
Regional Service Providers (cash and in-kind)	\$234,000
Leveraged funds and state grants to Massachusetts Bays communities and partners in support of CCMP implementation	\$370,000
GRAND TOTAL	\$604,000

Match will be provided by regional service providers as in-kind services devoted to projects and activities that support the implementation of the CCMP, as well as state grants awarded to MBP municipalities for land acquisition or other efforts related to CCMP implementation.

c) Budget Description

The MBP is uniquely structured in relation to other NEPs in that the vast majority of its budget is allocated for personnel costs. MBP supports three central staff, including a Director, Outreach and Policy Coordinator, and Marine Scientist, as well as up to five Regional Service Providers (RSPs), which are identified through a competitive bidding process.

As outlined in the following section, central staff are responsible for overall program administration, support, and supervision of RSPs, and implementation of technical elements of the FY10 Work Plan (Goals A: Produce Significant Environmental Results in the MBP Region), particularly Objective A7. Monitor Marine Waters. Central staff has primary responsibility for

implementing Goal B of the Work Plan: Building Organizational Effectiveness, as described below.

Regional Service Providers are responsible for managing networks of constituents in each of MBP's five subregions with the goal of implementing the CCMP at the local level. RSPs have primary responsibility for implementing technical elements of Goal A (Objectives A1-A7) of the FY10 Work Plan with the support of Central Staff, the MBP Management Committee, and local partners. RSPs and their host organizations provide substantial matching funds through their own CCMP implementation efforts and by securing grants from state funding sources.

d) Budget Summary by Activity/Objective

Immediately following is a summary of how \$320 funds are spent, broken down by activity and/or Work Plan objective.

	Executive Director		Education and Policy Coordinator		Marine Scientist		Regional Service Providers		Total
i) Program Administration	30%	\$32,343	30%	\$25,635	0%	\$0	0%	\$0	\$57,978
ii) Goal A: Objectives A1-A6, A8	50%	\$53,905	10%	\$8,545	10%	\$7,284	80%	\$240,415	310,149
iii) Goal A: Objective A7	0%	\$0	0%	\$0	90%	\$65,556	10%	\$30,052	95,608
iv) Goal B: Objectives B1-3	20%	\$21,562	60%	\$51,269	0%	\$0	10%	\$30052	102,883
v) Travel									\$8,000
vi) Other Expenses									\$25,383
TOTAL									\$600,000

i) Program Administration

The Executive Director and Outreach and Policy Coordinator will have primary responsibility for program administration, which includes convening and staffing the MBP Management Committee, managing the program budget and contracts, and submitting Work Plans and reports to EPA. An additional focus this year will be placed on revising contracting and invoicing processes, developing by-laws for the program, and other tasks that will result in a significant program administration work load.

	Executive Director		Education and Policy Coordinator		Marine Scientist		Regional Service Providers		Total
Program Administration	30%	\$32,343	30%	\$25,635	0%	\$0	0%	\$0	\$57,978

ii) Goal A: Produce Significant Environmental Results in MBP Region: Objectives A1-6, 8
As outlined in section B below, Goal A of the FY10 work plan includes technical elements identified in the CCMP including protecting and enhancing coastal habitat,

reducing and preventing stormwater pollution, and managing invasive species. These efforts are led primarily by contracted Regional Service Providers, with support from MBP Central Staff.

	Executive Director		Education and Policy Coordinator		Marine Scientist		Regional Service Providers		Total
Goal A: Objective A1-6, 8	50%	\$53,905	10%	\$8,545	10%	\$7,284	80%	\$240,415	310,149

- iii) *Goal A: Produce Significant Environmental Results in the MBP Region: Objective A7*
Goal A, Objective A7 involves monitoring estuarine and marine waters within the MBP region. These tasks are the primary responsibility of the Marine Scientist, with input and support from the Regional Service Providers.

	Executive Director		Education and Policy Coordinator		Marine Scientist		Regional Service Providers		Total
Goal A: Objective A7	0%	\$0	0%	\$0	90%	\$65,556	10%	\$30,052	95,608

- iv) *Goal B: Build Organizational Effectiveness for the Massachusetts Bays Program*
Goal B includes objectives and tasks that will strengthen the overall effectiveness and efficiency of MBP. Tasks include strengthening the Management Committee, developing a financial strategy, developing an outreach plan, etc. Responsibility for implementing these Objectives falls primarily to the Outreach and Policy Coordinator, with substantial assistance from the Executive Director, Regional Service Providers, and the Management Committee.

	Executive Director		Education and Policy Coordinator		Marine Scientist		Regional Service Providers		Total
Goal B: Objectives B1-3	20%	\$21,562	60%	\$51,269	0%	\$0	10%	\$30,052	102,883

- v) *Travel Expenses*
MBP has set aside \$8,000 for central staff travel to local and national events including two ANEP/NEP meetings in FY10. Additional travel funds will be used for attendance at regional and in-state events and meetings.
- vi) *Other Expenses*
An additional \$25,383.08 has been allocated for printing, workshops, and other incidental expenditures.

5. Staff and key partner responsibilities

- *Director* – The MBP Executive Director (the Director), Jay Baker, is responsible for the overall management of the program, including administration of grants and contracts, staff supervision, and general program operations. The Director works with the MBP Management Committee and program staff to set priorities for the program and facilitates development of the three year Strategic Plan as well as an annual Work Plan and grant application to EPA. The Director coordinates with EPA and the host agency, CZM, on administrative and programmatic issues, and provides oversight to regional service providers. The Director also assists with MBP technical and policy initiatives as needed, and will work with staff, the Management Committee, and partners to seek additional resources for MBP.
- *Outreach and Policy Coordinator* – The primary responsibility of the Outreach and Policy Coordinator (the Coordinator), Carole McCauley, is to communicate the mission, activities, and products of MBP to the communities and constituents served by the program. The Coordinator will develop an annual outreach and communications plan in conjunction with the MBP Management Committee and staff that advances recognition of the program and promotes the attainment of goals outlined in the CCMP and Strategic Plan. The Coordinator will manage the program website, produce a quarterly newsletter, and identify and employ additional mechanisms of outreach. In addition, the Coordinator will lead the implementation of select objectives identified in the Work Plan, such as the MBP Climate Ready Estuaries initiative. The Coordinator also serves in a significant program management role, assisting the Director with the development and submission of annual Work Plans and grant application, coordination of Management Committee meetings, developing and submitting required reports, and general facilitation of MBP operations and initiatives.
- *Marine Monitoring Scientist* – The primary purpose of the Marine Monitoring Scientist (the Scientist), Christian Krahforst, is to identify and fill research and monitoring needs in the MBP planning area that are consistent with the priorities of the CCMP and the annual Work Plan. The Scientist will work with MBP staff and Regional Service Providers to identify local research needs, assist with the development and implementation of monitoring efforts, and guide technical elements of the MBP, all of which will be articulated in an annual Marine Monitoring and Research Plan. The Scientist will serve as the lead on the development of the 2009 State of the Bays Report, the development of Quality Assurance Project Plans for relevant MBP initiatives, and coordinate MBP's involvement in the National Coastal Assessment Program. The Scientist will assist with program management requirements as necessary.
- *Regional Service Providers* – Regional Service Providers (RSPs) serve as MBP's primary means of communication with the communities of the MBP planning area. RSPs are responsible for identifying regional priorities that are consistent with the CCMP and three year Strategic Plan, and for developing and implementing strategies for implementing the annual Work Plan at the local level. RSPs are hosted by regional planning agencies or nonprofit organizations, and are responsible for coordinating the activities of MBP with these organizations. MBP will select up to five RSPs in state FY10 (up to one representative for each of MBP's five sub-regions).

6. Subawards

N/A

B. Proposed New and Ongoing Projects

Goal A: Produce significant environmental results in the MBP region

Objective A1: *Protect and enhance coastal habitat*

Description: FY10 restoration activities will focus on monitoring, protection, and restoration of three priority habitat types: salt marsh, diadromous fish runs, and eelgrass beds. Tasks will include identification of restoration opportunities in each region.

Outcomes:

- Short-term: Data and information are available to inform and motivate communities to act with regard to coastal habitat policy requirements and best practices
- Intermediate: Habitat quality and extent is known, effort is being made to restore and protect habitat, data are available to determine effectiveness
- Long term: Healthy, diverse, and representative coastal habitats and species exist and are protected

CWA core program(s) supported: Strengthening WQ standards, Controlling NPS pollution on a watershed basis, Strengthening NPDES permits, Improving water quality monitoring, Developing TMDLs

Task	Lead	Partners	Outputs
A1a) Revise habitat objectives of the Strategic Plan to clearly articulate the role of MBP in prioritizing, protecting, and restoring coastal habitats	MBP staff, RSPs, MBP Management Committee	CZM, WRP, DEP, DFG, EPA, NOAA, others	<ul style="list-style-type: none">– Revised Habitat Objective (Objective A1) of the 2009-2012 Strategic Plan– Revisited Habitat Plan
A1b) Work to identify priority salt marsh restoration opportunities	RSPs, MBP staff	CZM, WRP, NOAA, Massachusetts Habitat Restoration Partnership	<ul style="list-style-type: none">– Prioritized list of salt marsh restoration opportunities by region
A1c) Continue to engage volunteers in the assessment and monitoring of salt marsh habitats to establish pre- and post- restoration conditions	RSPs	CZM, WRP, NOAA, MBP communities	<ul style="list-style-type: none">– Number of sites to be determined following RSP bidding
A1d) Utilize DMF diadromous fish run database to identify restoration opportunities	DMF, RSPs, MBP staff	MBP communities	<ul style="list-style-type: none">– Priority diadromous fish run projects initiated, number of which to be determined following RSP bidding

Task	Lead	Partners	Outputs
A1e) Expand and support volunteer diadromous fish monitoring efforts to support restoration activities and raise community awareness	RSPs	DMF, MBP staff, MBP communities	<ul style="list-style-type: none"> – Number of sites to be determined following RSP bidding – Report on assessed populations completed
A1f) Evaluate the efficacy of new technologies for monitoring diadromous fish populations and assessing restoration efforts	RSPs	DMF, MBP communities	<ul style="list-style-type: none"> – Evaluation report on new monitoring techniques/technologies as they develop
A1g) Support local efforts to protect eelgrass habitat through wastewater planning and NPS management efforts	RSPs, MBP staff	CZM, WRP, DEP, MBP communities	<ul style="list-style-type: none"> – A minimum of two water quality remediation projects sited in areas of existing eelgrass beds
A1h) Support research and implementation of eelgrass protection BMPs such as conservation moorings	RSPs, MBP staff	DMF	<ul style="list-style-type: none"> – One demonstration project initiated including monitoring and evaluation of effectiveness
A1i) Support restoration projects funded through the 2009 economic recovery package	RSPs, MBP staff	CZM, WRP	<ul style="list-style-type: none"> – Contingent on funding approval, a minimum of three habitat restoration projects initiated with MBP support
A1j) Support regional habitat restoration efforts	MBP staff	GOMC, NOAA, WRP, CZM	<ul style="list-style-type: none"> –

Goal A: Produce significant environmental results in the MBP region

Objective A2: *Reduce and prevent stormwater pollution*

Description: The primary focus of this objective in FY10 will be assisting towns to achieve regulatory compliance related to NPDES Phase II as well as effective implementation of Massachusetts stormwater regulations and policies. Additional emphasis will be placed on the prioritization and implementation of stormwater retrofit opportunities, as well as assessment of the effectiveness of stormwater management efforts.

Outcomes:

- Short-term: Data and information are available to inform and motivate communities to act with regard to coastal habitat policy requirements and best practices
- Intermediate: Habitat quality and extent is known, effort is being made to restore and protect habitat, data are available to determine effectiveness
- Long term: Representative diversity of coastal habitats and species exist and are protected

CWA core program(s) supported: Controlling NPS pollution on a watershed basis, Strengthening NPDES permits, Developing TMDLs

Task	Lead	Partners	Outputs
A2a) Survey communities to determine progress and needs for complying with NPDES Phase II requirements, implementation of Stormwater Management Plans, and implementation of state stormwater standards	RSPs, MBP staff	MBP communities, EPA, DEP, RSPs	<ul style="list-style-type: none">- Report from each RSP summarizing survey results
A2b) Develop a Work Plan for addressing technical assistance and resource needs based on the results of Task A2a	RSPs, MBP staff	MBP communities, EPA, DEP	<ul style="list-style-type: none">- Work Plan from each RSP
A2c) Provide technical assistance related to the development of stormwater financing and the implementation of municipal stormwater utilities (MSUs)	RSPs, MBP staff	MBP communities, EPA, MSU experts	<ul style="list-style-type: none">- Minimum of two workshops on development of MSUs- Technical resources and materials developed
A2d) Continue to engage local constituents in stormwater management efforts through monitoring at stormwater outfalls and receiving waters	RSPs	MBP communities, EPA, DEP, MBP staff	<ul style="list-style-type: none">- A minimum of one regional monitoring effort and associated data/report
A2e) Based on task A2a-A2d, identify, prioritize, and seek resources for the implementation of stormwater retrofit projects	RSPs, MBP staff	MBP communities, EPA, DEP	<ul style="list-style-type: none">- A minimum of four priority stormwater retrofit projects initiated or completed
A2f) Develop an LID implementation strategy for the program	MBP staff,	MBP communities,	<ul style="list-style-type: none">- MBP LID implementation

	EEA, RSPs	EPA, DEP	strategy
A2g) Develop microbial source tracking techniques and assess the effectiveness of stormwater BMPs	DEP, MBP staff	EPA, RSPs	– A minimum of one stormwater retrofit site assessed and associated report
A2h) Continue to provide technical assistance on stormwater/NPS outreach related to the actions of MBP community members through Greenscapes and other education efforts	RSPs	MBP communities, RSPs, MBEA	– Number of projects to be determined following RSP bidding
A2i) Re-engage the Department of Transportation and Mass Highways as MBP partners	MBP, DOT, MHD		– Participation on Management Committee

Goal A: Produce significant environmental results in the MBP region

Objective A3: *Protect and enhance shellfish resources*

Description: The focus of MBP's work is in supporting local efforts to restore shellfish beds and promote sustainable aquaculture .

Outcomes:

- Short-term: Data and information are available to inform and motivate communities to act with regard to shellfish policy requirements and best practices
- Intermediate: Shellfish habitat quality and extent are known; pollution is mitigated, and monitoring data are available to determine effectiveness
- Long term: Shellfish are safe for human consumption; sustainable aquaculture operations are supported

CWA core program(s) supported:, Controlling NPS pollution on a watershed basis, Improving water quality monitoring, Developing TMDLs

Task	Lead	Partners	Outputs
A3a) Identify existing shellfish bed priorities and restoration opportunities	RSPs	DMF	- A review of shellfish bed restoration opportunities by region
A3b) Assist communities in writing grants to support the implementation and management of shellfish bed restoration projects	RSPs	CZM, DEP, DMF	- A minimum of two proposals written in support of shellfish bed restoration
A3c) Evaluate the efficacy of stormwater remediation projects for opening closed or conditionally approved shellfish beds (see task A2f).	DEP	RSPs, MBP staff	- Minimum of one stormwater retrofit site assessed and associated report

Goal A: Produce significant environmental results in the MBP region

Objective A4: *Manage local land use and growth*

Description: The MBP will continue to offer technical support to communities regarding the management of local land use and growth.

Outcomes:

- Short-term: Data, information, and planning tools are available to inform and motivate communities to act with regard to land use policy requirements and best practices that protect coastal and water resources
- Intermediate: Appropriate local land use policies and plans are in place
- Long term: Land use has little or no adverse impact on water quality and the health of coastal habitats

CWA core program(s) supported: Controlling NPS pollution on a watershed basis

Task	Lead	Partners	Outputs
A4a) Develop a coastal LID implementation strategy (see also Task A2f)	MBP staff, RSPs	EEA, CZM, RPAs, DEP	- A cooperative strategy for LID implementation in the MBP region
A4b) Lead and support LID demonstration and implementation projects	RSPs	MBP communities	- A minimum of two LID implementation projects initiated
A4c) Provide technical support to town boards regarding smart growth and its relationship to habitat protection	RSPs	MBP communities	- Support provided to Conservation Commissions, Planning Boards, and local growth management entities on an as needed basis - Number of projects to be determined following RSP bidding
A4d) Support development of land protection/conservation efforts that have a direct impact on coastal wetlands or water quality	RSPs	MBP communities	- Conservation efforts initiated/supported in each region - Number of projects to be determined following RSP bidding

Goal A: Produce significant environmental results in the MBP region

Objective A5: *Manage wastewater*

Description: The focus of this objective continues to be on the designation and implementation of NDAs and providing technical assistance to communities related to wastewater management.

Outcomes:

- Short-term: Data and information are available to inform and motivate communities to act with regard to wastewater policy requirements and best practices
- Intermediate: Wastewater discharge requirements are met
- Long term: Water bodies support designated human uses and provide suitable habitat for fish, other aquatic life, and wildlife

CWA core program(s) supported: Supporting municipal wastewater infrastructure, Strengthening WQ standards, Developing TMDLs

Task	Lead	Partners	Outputs
A5a) Continue to assist CZM with local coordination and information gathering related to the development of NDA applications	CZM	RSPs, EPA, MBP communities	- Upper North Shore NDA application submitted
A5b) Provide local technical assistance and outreach related to the implementation of applicable NDA regulations	RSPs	CZM, EPA, MBP communities	- Outreach materials developed in two regions
A5c) Provide technical support to MBP communities for wastewater planning and the review of Massachusetts Estuaries Project technical reports, associated nutrient thresholds, and alternatives analyses	MBP staff, RSPs	DEP, CZM	- Comments provided on all MEP technical reports developed for the MBP Region - Technical support provided for affected communities

Goal A: Produce significant environmental results in the MBP region

Objective A6: *Manage marine invasive species*

Description: The focus of this objective is on continuing to support state and regional efforts to manage invasive species.

Outcomes:

- Short-term: Data and information are available to inform decision-making
- Intermediate: Measures are taken to minimize the introduction and spread of marine invasive species
- Long term: Impacts of marine invasive species are minimized

CWA core program(s) supported: Developing TMDLs

Task	Lead	Partners	Outputs
A6a) Continue to engage volunteers in monitoring for new marine invasive species introductions and population expansion	RSPs, CZM	MBP communities, MIT Sea Grant, NEANS	<ul style="list-style-type: none">- Minimum of ten sites monitored for marine invasive species- Monitoring report completed
A6b) Work with the Massachusetts Aquatic Invasive Species (AIS) Working Group to identify priority transport vectors and outreach opportunities based on results of monitoring efforts	RSPs, MBP staff, CZM	CZM, AIS Working Group	<ul style="list-style-type: none">- Outreach plan developed in conjunction with CZM
A6c) Restore salt marsh habitat through the control of nonindigenous species	RSPs	CZM, WRP, MBP communities, landowners	<ul style="list-style-type: none">- Minimum of one restoration project implemented
A6d) Work with the NEANS Panel to develop regional monitoring, outreach, and control efforts for marine invasive species	MBP staff	NEANS Panel	<ul style="list-style-type: none">- NEANS Panel Work Plan produced that clearly identifies MBP's regional role

Goal A: Produce significant environmental results in the MBP region

Objective A7: *Monitor marine waters*

Description: The MBPs primary involvement in marine monitoring is twofold. First, the program offers expertise and assistance to RSPs and local partners in developing sound monitoring programs. Secondly, it plays a vital role in compiling, analyzing, and synthesizing data for local and regional partners ranging from municipalities to the GOMC.

Outcomes:

- Short-term: Data and information are available to inform monitoring and decision-making
- Intermediate: Data are used to inform decision-making
- Long term: Quality of coastal waters improves

CWA core program(s) supported: Strengthening WQ standards, Controlling NPS pollution on a watershed basis, Strengthening NPDES permits, Improving water quality monitoring, Developing TMDLs, Supporting sustainable wastewater infrastructure

Task	Lead	Partners	Outputs
A7a) Develop annual Marine Monitoring Plan	MBP staff	RSPs	– Annual Marine Monitoring Plan completed
A7b) Synthesize ongoing monitoring efforts within Mass Bays	MBP staff	RSPs, CZM regional staff, GOMC, NOAA, DEP, MBP communities, students, consultants	– State of the Bays Report completed – Summary of MA contaminants monitoring completed for Gulfwatch – Minimum of two draft embayment WQ monitoring reports prepared
A7c) Provide information gathered in monitoring efforts to constituents and the general public	MBP staff	RSPs, UMass, CZM	– Summary of National Coastal Assessment Monitoring 2000-2005 completed – MBP Embayment Atlas initiated
A7d) Provide targeted technical assistance for monitoring of specific embayments and coastal systems	MBP staff, RSPs, CZM regional coordinators	MBP communities	– Monitoring results available
A7e) Explore linking public health with environmental indicators/quality including emerging toxins, pharmaceuticals, and personal care	MBP staff	CZM, DEP	– Minimum of one proposal submitted for funding

	products			
A7f)	Conduct and support Gulfwatch monitoring efforts	MBP staff, DMF, GOMC	RSPs. MBP communities, CZM, DEP	– Annual Gulfwatch blue mussel survey results available
A7g)	Update MBP Quality Assurance Program Plan for efforts that engage the MBP	MBP staff, RSPs	EPA	– MBP QAPP updated

Goal A: Produce significant environmental results in the MBP region

Objective A8: *Adapt for projected impacts of climate change*

Description: This is a new objective in MBP's Strategic Plan for 2009-2012 and Annual Work Plan. In the first year, the focus will be on documenting what is known and what is needed, and in articulating strategies for how the program will proceed in addressing climate change adaptation. As the field of adaptation is still very much emerging, one key element in this will be to network aggressively to keep abreast of what others are doing, both to avoid duplication of effort as well as to learn from the experiences of others.

Outcomes:

- Short-term: Data about impacts and information are available to inform and motivate communities to act with regard to climate change adaptation
- Intermediate: Measures are taken to prepare and protect coastal resources from the impacts of climate change
- Long term: Climate-driven impacts to the coastal environment are minimized

CWA core program(s) supported: Supporting sustainable wastewater infrastructure

Task	Lead	Partners	Outputs
A8a) Convene a committee to advise on MBP's climate strategy	MBP staff, MBP Management Committee	RSPs, technical experts	<ul style="list-style-type: none">- Kick off meeting held- Committee Terms of Reference completed
A8b) Review and provide input on the work of the Climate Ready Estuaries salt marsh vulnerability assessment	MBP staff, MBP climate committee, EPA	ICF, RSPs, technical experts, CZM	<ul style="list-style-type: none">- CRE salt marsh assessment report completed
A8c) Assess needs of MBP communities with regard to adaptation planning	MBP staff, RSPs	MBP climate committee	<ul style="list-style-type: none">- Results from constituent survey
A8d) Link in to other climate-related initiatives to ensure that MBP efforts are complementary and not duplicative	MBP staff, RSPs	EEA, CZM, "Massachusetts NGO climate coalition"	<ul style="list-style-type: none">- Representation on or with other committees/efforts

Goal B: Build organizational effectiveness for the Massachusetts Bays Program

Objective B1: *Strengthen the identity and influence of the MBP*

Description: In the coming year, the MBP is looking forward to giving a new face to the program in terms of its image and identity. Additionally, the identity and interests of the program's constituent base (stakeholders) will be assessed and described in a formal process. Effort will be made to come up with meaningful indicators to measure and recognize the degree to which constituents feel that the MBP is effective.

Outcomes:

- Short-term: Organizational identity products are shared with constituents
- Intermediate: The Program has a presence in all of the communities of the MBP region
- Long term: MBP is an effective, credible, and respected partner

CWA core program(s) supported: N/A

Task	Lead	Partners	Outputs
B1a) Develop a communications plan	MBP staff	RSPs, others	- Communications Plan completed
B1b) Report widely on program efforts and achievements	MBP staff, EPA, RSPs	Partners, MBP Management Committee	- MBP identity materials developed - Newsletter published quarterly - Website updated quarterly - NEPORT and other EPA data reported annually
B1c) Define values, interests, and capacities of constituents	MBP Management Committee, MBP staff	RSPs, others	- Stakeholder assessment completed
B1d) Ensure that MBP is driven by consensus of partners and constituents	MBP Management Committee, MBP staff, RSPs		- Needs and satisfaction assessment completed
B1e) Develop a means of measuring the quality and extent of constituent engagement and satisfaction	MBP staff	RSPs, MBP Management Committee, partners	- Indicators developed
B1f) Recognize contributions of constituents and partners	MBP staff, MBP Management Committee, RSPs	Partners	- Stephan Gersh award presented - Document guidelines and history of the award process

Goal B: Build organizational effectiveness for the Massachusetts Bays Program

Objective B2: *Identify and pursue alternative funding*

Description: The MBP will complete a Finance Strategy that will articulate an array of potential sources and strategies for securing funding for the implementation of program activities.

Outcomes:

- Short-term: Funding priorities and potential funding sources and partners are identified
- Intermediate: Funds are sought to carry out project implementation
- Long term: MBP is sufficiently funded to implement its work

CWA core program(s) supported: N/A

Task	Lead	Partners	Outputs
B2a) Develop a financial strategy that will enable effective MBP program implementation	MBP staff, RSPs	MBP Management Committee	- Finance Strategy Completed

Goal B: Build organizational effectiveness for the Massachusetts Bays Program

Objective B3: *Ensure effectiveness of MBP structure for program implementation*

Description: During the coming year, the MBP will undergo some close self-scrutiny in order to re-articulate its structure, governance, and relationships with key partners. The scope and role of the Management Committee will be more clearly defined, and several guidance documents will be produced and approved by consensus of the Management Committee. Regional Service Providers will be installed following a process of competitive bidding.

Outcomes:

- Short-term: Measures are taken to clarify roles and responsibilities of MBP staff, committees, and partners
- Intermediate: Management Committee and any relevant sub-groups are engaged in program planning and implementation
- Long term: MBP is effective in meeting the objectives of its CCMP and is adequately represented by constituents and partners

CWA core program(s) supported: N/A

Task	Lead	Partners	Outputs
B3a) Articulate MBP's intermediate-term priorities and objectives	MBP staff	RSPs, partners	- Final Strategic Plan for 2009-2012 completed
B3b) Roles and responsibilities of MBP staff, Management Committee, RSPs, and any other key partners are articulated and agreed upon by consensus	MBP staff, MBP Management Committee	RSPs, partners	- Roles and responsibilities document completed
B3c) Management Committee is actively and effectively engaged in providing direction for the MBP	MBP staff, MBP Management Committee		- Bylaws developed for Management Committee operation - Management Committee membership increases
B3d) Subcommittees are identified and convened	MBP staff, MBP Management Committee	RSPs, partners	- Terms of Reference prepared
B3e) Detailed Work Plans are developed for each RSP	MBP staff, RSPs	MBP Management Committee	- Scopes of work completed for RSPs

C. Previous Year Activities

1. Goals and accomplishments

It may be useful to reiterate that in the past, the MBP planned and reported solely on the CCMP action areas (currently Strategic Plan Objectives A1-A7) and not on the organizational objectives (currently Strategic Plan Objectives B1-B3). In the future, we will report on both.

However, for the purposes of appreciating the more technical contributions that our RSPs have addressed this past year, it is interesting to note that technical priorities differ across regions, thus giving some rationale for the MBP's having a number of priority action areas. The following table summarizes the areas for which each RSP has reported achievement in FY08.

	<i>Objective under which work was proposed in FY08</i>	<i>Upper North Shore</i>	<i>Salem Sound</i>	<i>South Shore</i>	<i>Cape Cod</i>
CCMP priority action goals	CCMP Goal 2: Protect and enhance shellfish resources			√	
	CCMP Goal 3: Protect and enhance coastal habitat	√	√	√	√
	CCMP Goal 4: Reduce and prevent stormwater pollution	√	√	√	√
	CCMP Goal 7: Manage municipal wastewater	√	√		√
	CCMP Goal 14: Manage local land use and growth	√	√		
	CCMP Goal 16: Manage marine invasive species		√	√	√
	CCMP Goal 17: Monitor marine waters			√	√
Other CCMP goals worked on in 2008	CCMP Goal 13: Planning for a shifting shoreline			√	√
	CCMP Goal 15: Enhancing public education and participation	√	√	√	√

The following pages include a more detailed summary of the particular activities on which MBP's Central Staff, four Regional Service Providers, and the Massachusetts Bays Estuary Association worked during the past year. The "Activities" are extracted largely from the FY08 Work Plan, although new activities, not previously articulated, have been added as well. These are prefaced with the word "NEW" at the beginning of the activity description.

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
CCMP Goal 2: Protect and enhance shellfish resources				
Cape Cod	<ul style="list-style-type: none"> Sponsor and organize public workshop on shellfish and water quality 	<ul style="list-style-type: none"> Barnstable County Coastal Resources Committee, Extension Service, and Shellfish Advisory Committee 	<ul style="list-style-type: none"> Postponed to 2009 due to turnover in County shellfish staff; workshop to be held later in 2009 	<ul style="list-style-type: none">
South Shore	<ul style="list-style-type: none"> Continue fecal coliform sampling with DMF for opening of shellfish beds 	<ul style="list-style-type: none"> DMF, Town of Marshfield 	<ul style="list-style-type: none"> Potential reduction of shellfish closures 	<ul style="list-style-type: none"> Fecal coliform data
CCMP Goal 3: Protect and enhance coastal habitat				
Cape Cod	<ul style="list-style-type: none"> Assist Sandwich with grant-writing assistance and monitoring assistance to install and monitor new fish ladder that restores diadromous fish access to 20-acre spawning pond 	<ul style="list-style-type: none"> Sandwich DNR, DMF, USFWS, NRCS, Town of Sandwich, GOM Council, NOAA Habitat Restoration Partnership, National Ass'n of Counties, Barnstable County 	<ul style="list-style-type: none"> 3-year monitoring program begins Spring 2009 New fish ladder to be installed Spring 2009 On track to help towns write progress report for GOM grant Spring 2009 	<ul style="list-style-type: none"> O&M plan for fish ladder More than \$78K in funding for fish ladder
Cape Cod	<ul style="list-style-type: none"> Assist Town of Brewster with Stony Brook salt marsh restoration feasibility assessment and herring run improvements; Assist Town with project management including project coordination, conducting technical studies (wetland assessment, herring counts), grantwriting and outreach 	<ul style="list-style-type: none"> Town of Brewster DNR, GOM Council, NOAA Habitat Restoration, WRP, CWRP, Town of Brewster Alewife Committee, Cape Cod Museum of Natural History, USFWS, Brewster Conservation Trust, Compact of Cape Cod Conservation Trusts, DMF 	<ul style="list-style-type: none"> On track to assist WRP and Town with grant applications in spring 2009 Final modeling of restoration options to be completed and option selected by Spring 2009 	<ul style="list-style-type: none"> Final grant reports for GOM Council / NOAA grant for feasibility study \$10K grant amendment for additional modeling Permit application to MA Historical Commission \$20K of private foundation funding Corporate donation of \$15K Submitted grant application to FishAmerica Foundation for \$15K
Cape Cod	<ul style="list-style-type: none"> Assist in revising Brewster wetland bylaw and regulations 	<ul style="list-style-type: none"> Brewster Conservation Commission 	<ul style="list-style-type: none"> Town has put this project on hold indefinitely 	<ul style="list-style-type: none">
Cape Cod	<ul style="list-style-type: none"> Continue to provide volunteer-based salt marsh monitoring of sites identified by 	<ul style="list-style-type: none"> WRP, GOM Council / NOAA Habitat Restoration Partnership, 	<ul style="list-style-type: none"> Pre- and post-restoration monitoring data collected at 	<ul style="list-style-type: none"> Data are input into CZM's MarshDB

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	the WRP as priority salt marsh restoration sites. This volunteer-based monitoring program has been providing monitoring of salt marshes on Cape Cod since 2003. Provide monitoring data to agencies under a state-approved QAPP	private foundations	seven priority salt marsh restoration sites	database
Cape Cod	<ul style="list-style-type: none"> NEW: monitor climate change effects on salt marshes 	<ul style="list-style-type: none"> WRP, MBP Climate Ready Estuaries Pilot Project 	<ul style="list-style-type: none"> Proposal to fund mapping and monitoring of coastal embayments where salt marsh retreat can occur as sea level rises due to climate change 	<ul style="list-style-type: none"> Submitted full proposal March 2009
Cape Cod	<ul style="list-style-type: none"> Continue to build and support volunteer herring count program in Brewster; use data to build public support for restoration, help fisheries managers in decision-making, and grant support. Winter-spring 2007 	<ul style="list-style-type: none"> Town of Brewster Alewife Committee, GOM Council / NOAA Habitat Restoration Partnership, DMF, UMass Amherst, Stony Brook Herring Monitors, Cape Cod Museum of Natural History, private foundations 	<ul style="list-style-type: none"> Monitoring data supports grant-writing (MET, GOM Council/NOAA, foundations) Draft and Final Herring Monitoring Reports for 2007 and 2008 submitted to Town of Brewster and GOM Council 	<ul style="list-style-type: none"> Presentations at Cape Cod Natural History Conference and MBP fall meeting Web page on APCC website Monitoring reports
Cape Cod	<ul style="list-style-type: none"> Continue to manage herring run videomonitoring program at Stony Brook Brewster as a backup for volunteer counts Develop protocol for videomonitoring. Continue to work with UMass Amherst scientists and DMF to develop herring videomonitoring as a herring count methodology 	<ul style="list-style-type: none"> Brewster Alewife Committee, Cape Cod Museum of Natural History, private foundations 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Same as above
Cape Cod	<ul style="list-style-type: none"> Support the volunteer herring count program in 2008 by providing training and equipment and data management 	<ul style="list-style-type: none"> Town of Orleans Shellfish and Waterways Advisory Committee 	<ul style="list-style-type: none"> New programs in Wellfleet, Chatham, and Harwich, ongoing programs in Brewster and Orleans 	<ul style="list-style-type: none"> Herring and American eel count data Presentation to volunteers at a fall Volunteer Appreciation Event
Cape Cod	<ul style="list-style-type: none"> NEW: Encourage Sandwich DNR to initiate new herring count program in 	<ul style="list-style-type: none"> Town of Sandwich Department of Natural Resources, GOM 	<ul style="list-style-type: none"> In development, monitoring to begin in Spring 2009 	<ul style="list-style-type: none"> Grant Progress Report to the GOM

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	Sandwich Mill Creek Estuary to support fish run restoration activities – Assisting Town DNR with project management of two grants for fish ladder replacement	Council / NOAA Habitat Restoration Partnership, National Ass’n of Counties / NOAA Community-Based Restoration Partnership, Barnstable County Commissioners, DMF, USFWS, USDA NRCS	– Monitoring on restored herring run when fish ladder is completely installed by mid-June 2009	Council on results of first 6-months work
Cape Cod	– Assist communities to update wetland bylaw and regulations	–	– On hold indefinitely, other groups are working on this	–
Cape Cod	– Continue to provide outreach on the proposed Cape Cod Water Resources Restoration Project to restore impaired fish runs, mitigate stormwater outfalls and restore restricted salt marshes throughout Cape Cod	– Barnstable County Coastal Resources Committee and County Commissioners, 15 towns and many agencies and organizations on Cape Cod	–	– List of coalition of supporting organizations; support letters – List of projects sent to state for consideration for federal infrastructure funding
Cape Cod	– NEW: Assist Towns with grant-writing for new restoration projects	– Wellfleet Conservation Agent, Brewster DNR, GOM Council / NOAA Habitat Restoration Partnership, WRP, NOAA Habitat Restoration staff	– Initiated – Freeman’s Pond restoration feasibility study submitted to GOM – Letters of Intent for Mayo Creek restoration feasibility study	– Letters of Intent – Freeman’s Pond restoration feasibility study
South Shore	– Assist Town of Pembroke in evaluating the potential for stream restoration and improvement in the Herring Brook	– DMF, Town of Pembroke	– Improved fish ladder	–
South Shore	– Continue efforts to restore fish passage in First Herring Brook, including habitat monitoring	– First Herring Brook Watershed Initiative, CZM, DEP, DMF, Riverways, TNC, NOAA Restoration Center, Town of Scituate, SEI, Tufts University, USFWS	–	– Habitat monitoring data – Water use model – Restoration plan
South Shore	– Provide technical and grant-writing assistance to towns to adopt Open Space Plans, local Wetlands Bylaws, mapping	– Towns of Hanover, Scituate, Marshfield, Norwell	–	– Stormwater bylaws/regulations – Habitat

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	tools, specially designated areas, and other habitat protection tools			Management Plans
South Shore	– Promote local coastal land restoration by continuing to expand the role of volunteers and local officials in assessing and monitoring habitats	– Towns of Hanover and Norwell, Riverways Program, WRP	–	– Habitat monitoring data
South Shore	– Work to restore tidally restricted wetlands on the South Shore	– WRP	–	–
South Shore	– Continue assisting dam owners with fish passage restoration	– Jones River Watershed Ass’n, Towns of Plymouth, Kingston, Norwell, Hanover, Marshfield, Scituate	–	–
Salem Sound	– Organize stream teams for the rivers of Salem Sound and maintain existing stream teams, the Manchester Coastal Stream Team and the North River Stream Team, to conduct shoreline surveys, develop and implement action plans, and serve as a consistent, sustainable stewardship force for the rivers	– Manchester Coastal Stream Team, North River Stream Team	– Met monthly with MCST to work on action items – Team members conducted water quality testing – Conducted North River cleanups – Manchester water quality report to Board of Health and Selectmen	– Data, water quality report – Cleanups
Salem Sound	– Provide technical assistance, develop monitoring plan (QAPP) for neighborhood groups and conservation commissions concerned with the condition of fresh water coastal ponds and rivers in Marblehead and Peabody and lead monitoring efforts	– Marblehead Conservation Commission, Peabody Public Works	– Marblehead Conservation Commission decided not to conduct pond surveys or monitoring – Peabody is in process of hiring a new Public Works director	–
Salem Sound	– Train volunteers and local officials in the Wetlands Health Assessment Toolbox program; monitor wetlands in need of restoration or following restoration	– WRP, SSCW volunteers, Endicott College ecology students	– Training completed, monitoring ongoing – Monitored three salt marshes for salinity, vegetation, nektons and macroinvertebrates	– Data entered into CZM’s MarshDB
Salem Sound	– Initiate diadromous fish/river restoration and/or monitoring projects	– DMF	– Not feasible at this time, although DMF monitors smelt from March to May in three SS locations	–
Salem	– Study control methods for <i>Phragmites</i>	– GOMC, Salem State College	– Completed study of control	– Restored half acre

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
Sound	<i>australis</i>		methods	
Salem Sound	<ul style="list-style-type: none"> - Conduct a Perennial Pepperweed awareness and control campaign across Mass Bay 	<ul style="list-style-type: none"> - Did not get funding from NFWF PTI but applied to Five Star 	<ul style="list-style-type: none"> - Removal at four sites in Salem Harbor - Member of the regional pepperweed working group - Distributed pepperweed posters 	<ul style="list-style-type: none"> - Pepperweed poster
Salem Sound	<ul style="list-style-type: none"> - Conduct shellfish and worm survey of recently restored intertidal mudflats at Mill Pond, Gloucester 	<ul style="list-style-type: none"> - WRP, NOAA Restoration, CWRP, City of Gloucester 	<ul style="list-style-type: none"> - Completed first of three years of monitoring - submitted Quality Assurance Project Plan to DEP and EPA 	<ul style="list-style-type: none"> - Year 1 final report
Salem Sound	<ul style="list-style-type: none"> - Assist with permitting, project management, and stakeholder participation for Thissell Marsh Restoration Project, Beverly 	<ul style="list-style-type: none"> - WRP, Endicott College 	<ul style="list-style-type: none"> - Permitting complete for 5-acre restoration of salt marsh - Seeking \$1.5 million funding for construction 	<ul style="list-style-type: none"> -
Salem Sound	<ul style="list-style-type: none"> - Coastal cleanups 	<ul style="list-style-type: none"> - General public, SSCW members 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> - Conducted six cleanups along rivers, beaches and islands
Salem Sound	<ul style="list-style-type: none"> - NEW: Horseshoe Crab Spawning monitoring 	<ul style="list-style-type: none"> - DMF, Pickman Park Neighborhood 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> - Report on monitoring of spawning horseshoe crabs at Pickman Park
Upper North Shore	<ul style="list-style-type: none"> - Continue to chair Restoration subcommittee for Ipswich River habitat restoration projects 	<ul style="list-style-type: none"> - Ipswich River Watershed Ass'n, Riverways, WRP, North Shore Fly Fishermen 	<ul style="list-style-type: none"> - Restoration Workplan developed 	<ul style="list-style-type: none"> - 2009 Restoration Work Plan
Upper North Shore	<ul style="list-style-type: none"> - Partner with WRP on Coastal Habitat and Restoration Plan for 8T&B communities/Great Marsh - Push forward the Town Creek, Salisbury, Newman Road, Newbury, and the Wingaersheek restoration projects and development of NAWCA grant - Develop additional Great Marsh restoration site teams for other high priority sites on the WRP list. Work to initiate new projects in Rowley, Essex, 	<ul style="list-style-type: none"> - WRP, NOAA, 8T&B towns 	<ul style="list-style-type: none"> - Various projects in various states of design or implementation - Of the Great Marsh sites, preliminary assessment of projects resulted in only two of those projects moving forward; Kent's Island and Governors Academy, both in Newbury 	<ul style="list-style-type: none"> -

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	Newbury and Ipswich			
Upper North Shore	<ul style="list-style-type: none"> - Work with the Gloucester Restoration Team (coastal restoration stakeholders and city of Gloucester officials) to prioritize and implement Gloucester restoration projects for funding Sleepy Hollow, Wingaersheek, Mill Pond, Days Pond, Mass Ave expansion) 	<ul style="list-style-type: none"> - NOAA, WRP, City of Gloucester 	<ul style="list-style-type: none"> - Sleepy Hollow and Days Pond implementation on hold - Wingaersheek in design and pre-permitting - Mill Pond in permitting and funding phase 	<ul style="list-style-type: none"> -
Upper North Shore	<ul style="list-style-type: none"> - Coordinate volunteers for 2009 Alewife Brook Herring Run count 	<ul style="list-style-type: none"> - MAS, Town of Essex, Chebacco Lake Ass'n 	<ul style="list-style-type: none"> - Assembling volunteers - Developing outreach - Fish passage data to be collected 	<ul style="list-style-type: none"> -
Upper North Shore	<ul style="list-style-type: none"> - Assist Ducks Unlimited and the Parker River Wildlife Refuge in developing and implement emergent Phragmites control efforts in the Newbury Great Marsh 	<ul style="list-style-type: none"> - Ducks Unlimited, PRNWR, Town of Newbury, MAS, ECGB, MADFW, WRP 	<ul style="list-style-type: none"> - Round 1 of control completed - Preliminary assessment of effectiveness underway - Precontrol (fire) for Round 2 	<ul style="list-style-type: none"> -
Upper North Shore	<ul style="list-style-type: none"> - Collect salinity data in the marsh area and tidal creeks of the Great Marsh to support Phragmites control efforts 	<ul style="list-style-type: none"> - 	<ul style="list-style-type: none"> - Pore salinity collected and assessed - Outreach materials developed 	<ul style="list-style-type: none"> - Monitoring Plan - Work scope for 2009 field season
Central Staff	<ul style="list-style-type: none"> - Regional Wetland (Salt Marsh) Monitoring Protocol - Developed a draft set of standard protocols for assessing the response of salt marsh wetlands to stressors - Develop a manual for assessing coastal wetlands based on the research efforts to date - Develop a system for freshwater systems 	<ul style="list-style-type: none"> - CZM, EPA-ORD, New England Interstate Water Pollution Control Commission, CZM, UMass Amherst, DEP 	<ul style="list-style-type: none"> - Materials developed and training provided on use - Manual completed - Thirty members of New England Biological Assessment of Wetlands Working Group were trained to use the manual for possible adaptation in their own states - Grant received from EPA and Work Plan developed and designed for field work - QAPP developed - Rapid Assessment Manual developed - Freshwater protocol in 	<ul style="list-style-type: none"> - Rapid assessment manual and QAPP completed - 30 persons trained

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
			development	
Central Staff	<ul style="list-style-type: none"> - Develop more protective water quality standards - Obtain targeted WQ monitoring data and information for compiling in the CZM WQ monitoring database - Review and provide comments on similar approaches by NH Dept of Environmental Services and UNH efforts - Continue to enhance technical capacity of the MBP to maintain relevant state-of-the-art autonomous monitoring in coastal systems 	- MBP	<ul style="list-style-type: none"> - On hold until other funding opportunities present themselves 	<ul style="list-style-type: none"> - Proposal submitted to DEP
Central Staff	<ul style="list-style-type: none"> - Continue surveys for potential stressors in marsh systems to identify any possible “dieback” conditions during the summer of 2008. Photo-documentation will continue to augment information collected in summer 2006 and 2007 	-	<ul style="list-style-type: none"> - Discontinued due to consensus among the scientific community that “dieback” issues were a real and definable phenomenon 	-
CCMP Goal 4: Reduce and prevent stormwater pollution				
Cape Cod	<ul style="list-style-type: none"> - Stormwater utilities: Continue to provide outreach to towns, local decision makers, and the public on the need for stormwater financing, particularly stormwater utilities. Start with Phase II NPDES coordinators. Investigate combined utility for wastewater and stormwater. Continue to find funding for stormwater utility outreach program. Continue to build resource collection 	<ul style="list-style-type: none"> - Cape Cod Commission, Waquoit Bay Coastal Training Program, CZM NPS, program, Barnstable County Coastal Resources Committee, MET, private foundation 	<ul style="list-style-type: none"> - Held Stormwater Financing Workshop in January 2009 - Yarmouth applied for funding to conduct Stormwater Utility Feasibility Study, other towns interested - Stormwater Utility Resources on CD, distributed to towns, workshop participants - Convening meeting with Phase II coordinators to define regional interest and regional needs to prepare for grant writing 	<ul style="list-style-type: none"> - Stormwater Management Needs Survey of Towns - Web page on APCC website - Workshop held - Resources CD developed
Cape Cod	<ul style="list-style-type: none"> - Stormwater grant-writing assistance: Continue providing assistance to towns, 	<ul style="list-style-type: none"> - Cape Cod Commission, CZM 	<ul style="list-style-type: none"> - Meetings with Phase II coordinators in 2008 and 	-

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	County and other agencies to improve their stormwater proposals to CZM, 319 program, etc. Continue working with CZM to identify priority projects		2009 to discuss needs and potential grant applications – APCC will provide \$2K match (in-kind services) to Yarmouth for stormwater utility feasibility study funded by Cape Cod Commission in Feb 2009	
Cape Cod	– Stormwater outreach: Work with MBEA to distribute Think Blue outreach materials promoting stormwater management	– Town of Barnstable DPW, MBEA	– Think Blue outreach materials distributed at outreach events	–
South Shore	– Continue work on EPA 104b3 grant to implement raingardens in 11 South Shore towns	– Weir River Estuary Center, Weir River Watershed Ass’n, Hull Garden Club, Gratta Excavation, Maria Weston Chapman School, JF Price, Hingham Public Library, Hingham DPW, South Shore Perennial Gardeners, Kennedy’s Country Gardens, Grace Farrar Cole School, Norwell HS, First Congregational Church, Hanover Garden Club, Walnut Hill Garden Club, Green Connection, Wyman’s Garden Center, Lydia Drake Library, Scituate HS, Riverways Program, First Herring Brook Watershed Initiative, MAS, Bay Farm Montessori Academy, Jones River Watershed Ass’n, Kingston DPW, Plimoth Plantation, Plymouth County 4H	– Completed	– 11 Raingardens
South Shore	– Continue work on implementation of LID Demonstration sites in Kingston and Pembroke	– Town of Kingston, Kingston Intermediate School, CEI	– Ongoing – Developed and presented outreach materials	– Lesson on stormwater, – Map of BMPs and informational brochure

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
				<ul style="list-style-type: none"> – Workshop on BMP maintenance – BMPs installed at KIS
South Shore	– Continue assisting with Think Blue campaign.	–	– On hold	–
South Shore	– Assist with GIS mapping of stormdrains	–	– No towns requested this FY	–
South Shore	– Continue assisting with Greenscapes on the South Shore	– Regional communities	–	–
South Shore	– Assist SS towns to implement Greenscapes Model Bylaws and Stormwater Bylaws	– Towns of Scituate, Marshfield, Cohasset, MAPC, Horsley-Witten Group	–	– Stormwater or Landscaping bylaws and regulations
South Shore	– NEW: Continue monitoring local waters for stormwater pollution	– Towns of Marshfield, Scituate, Pembroke, Norwell, Hanover	– Locations of potential bacterial sources identified	– Monitoring data
Salem Sound	– Provide technical assistance and grant writing support for implementing the stormwater policy, stormwater utilities, Phase II requirements, and resource protection efforts, including ensuring stormwater mitigation in development and redevelopment plans	– Working with Peabody to fund and implement stormwater mitigation and best management practices at the Welch School, Strongwater Brook	<ul style="list-style-type: none"> – Attended planning and conservation commission meetings to ensure stormwater mitigation – Assisted Peabody on two grants, neither funded 	– Grant applications
Salem Sound	– Provide workshops or other technical assistance to train local officials on the implementation of the DEP Stormwater Policy, Stormwater Phase II requirements, LID and stormwater utilities	– 8T&B, MBP, Horsley Witten Group	– North Shore Stormwater Financing Workshop to be held on April 30	– Workshop materials
Salem Sound	– Develop Greenscapes outreach materials, pilot demonstration sites, and provide training and workshops.	– Greenscapes North Shore Coalition, Greenscapes Coalition; participation by 16 communities, landscape professional volunteer	<ul style="list-style-type: none"> – Conducted 8 Greenscapes workshops for over 200 homeowners – Presented 1 workshop for landscape professionals 	– Presentations
Salem Sound	– Continue to identify bacterial contamination at streams and outflows to Salem Sound beaches by conducting water quality testing	– Clean Beaches & Streams monitoring volunteers	<ul style="list-style-type: none"> – Completed, but program is ongoing – Conducted bacterial testing at 27 sites from July and August 2008 and June 2009 	–
Salem Sound	– Continue to work with region's health agents to identify public education /	– Health agents and Public Works directors from four towns;	– Notified network of high levels of bacteria at five sites	–

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	awareness issues associated with beach water quality and develop outreach and distribute educational materials associated with SSCW's "Make the Stormwater Connection" campaign		and continue to look for solutions; conducted public outreach via new media, website and public presentations	
Salem Sound	<ul style="list-style-type: none"> Based on Salem's success with solar powered trash compactors (Big Belly), encourage other Salem Sound communities to purchase street trash compactors to minimize trash being washed or blown into rivers and ocean 	<ul style="list-style-type: none"> City of Salem purchasing and maintenance 	<ul style="list-style-type: none"> Salem's success used as role model for other watershed communities 	<ul style="list-style-type: none"> Nine solar powered trash compactors purchased in Salem
Upper North Shore	<ul style="list-style-type: none"> Coordinate with Town of Ipswich on Farley Brook stormwater bylaw development 	<ul style="list-style-type: none"> Town of Ipswich 	<ul style="list-style-type: none"> On hold due to personnel & budget issues 	<ul style="list-style-type: none"> Stormwater bylaw
Upper North Shore	<ul style="list-style-type: none"> Continue the development and expansion of the Greenscapes North Shore Program. Expand program to all 8T&B and MVPC communities to assist them in meeting their Phase II stormwater plan. 	<ul style="list-style-type: none"> Greenscapes North Shore, 8T&B and MVPC participating communities 	<ul style="list-style-type: none"> Six communities enlisted in the program, one which is new 1 town doing SW infrastructure mapping 	<ul style="list-style-type: none"> Workshop series developed and delivered
Upper North Shore	<ul style="list-style-type: none"> Participate in Think Blue Massachusetts 	<ul style="list-style-type: none"> MBEA, MBP 	<ul style="list-style-type: none"> On hold 	<ul style="list-style-type: none">
Upper North Shore	<ul style="list-style-type: none"> Work with the Merrimack River Watershed Council on implementing a water quality monitoring plan for the Merrimack River 	<ul style="list-style-type: none"> MRWC, DEP 	<ul style="list-style-type: none"> On hold due to lack of funds 	<ul style="list-style-type: none">
Upper North Shore	<ul style="list-style-type: none"> Work with Gloucester, Ipswich, and Newburyport on investigation of instituting a stormwater utility 	<ul style="list-style-type: none"> 8T&B towns, SSCW 	<ul style="list-style-type: none"> Outreach materials developed and presented 	<ul style="list-style-type: none"> Workshop April 2009
Upper North Shore	<ul style="list-style-type: none"> Chair 8T&B region DPW Network meetings to discuss issues, concerns, and ideas related to the implementation of DEP/EPA approved Phase II plans as well as stormwater priority problem sites in the 8T&B region and Low Impact Development stormwater mitigation practices 	<ul style="list-style-type: none"> 8T&B towns 	<ul style="list-style-type: none"> On hold due to local unavailability 	<ul style="list-style-type: none">
Central	<ul style="list-style-type: none"> Continue to work with CZM staff to 	<ul style="list-style-type: none"> Local municipalities 	<ul style="list-style-type: none"> Two financing workshops 	<ul style="list-style-type: none"> Workshop materials

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
staff	provide technical and educational assistance to local communities for the implementation of local stormwater programs, including the development of stormwater utilities and stormwater drain mapping		held on Cape Cod and on the North Shore	- Workshops January (Cape Cod) and April (North Shore)
Central staff	- MBP will continue to assist DEP with revisions to the state stormwater program, as needed	- CZM, DEP	- Revisions completed and public meetings held	-
Central staff	- Work with the Stormwater Interagency Action Team to improve coordination, information sharing, and better implementation of state stormwater policy - Assist with reviews of grants for stormwater improvements	- CZM, Stormwater Interagency Action Team	- CPR grant proposals were reviewed and selected for funding - Ongoing	-
CCMP Goal 7: Manage municipal wastewater				
Cape Cod	- Help designate Cape Cod Bay as a NDA for boat sewage	- NDA Working Group (CZM, APCC, MBP, Nantucket Sound Keepers, Barnstable, EPA), Boards of Selectmen, Harbormasters, Barnstable County Coastal Resources Committee	- Worked with CRC to identify stormwater outfall remediation projects eligible for federal funds and sent request to Governor's office in January 2009 - NDA designation for CC Bay in July 2008 - Supported state legislation for improved NDA enforcement - Meetings with stakeholders to build support for designating NDA on south coast - Data collection	- New pumpouts in three towns - Community outreach, community support letters, NDA application, outreach materials
Cape Cod	- Continue working with the Barnstable County Water Protection Collaborative to build public support for regional wastewater management and sewerage	- Barnstable County Water Protection Collaborative	- Participation in regular Water Protection Collaborative meetings	-
Cape Cod	- Continue providing "CapeKeepers" wastewater education program, working	- Waquoit Bay NERR and Coastal Training Program,	- Co-sponsored Wastewater Financing Workshop in	- Workshop materials

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	with project partners (see 2006-2007 Achievements) to build public support for regional wastewater management	MET, Barnstable County Water Protection Collaborative	April 2008 – Train-the-trainer workshops in training speakers on wastewater management, 2006, 2008	
Cape Cod	– NEW: Provide general outreach on the need for regional wastewater management and sewerage to improve water quality	– Private foundations, local cable TV stations	– Video is being distributed to local cable TV stations	– Video on impact of septic systems on shellfish beds and water quality created in 2008
South Shore	– Assist in outreach efforts to publicize Cohasset/Scituate/Marshfield NDA	– Cohasset, Marshfield, Scituate harbor masters and waterways committees (support), Bilezikian Foundation (funding)	– Ongoing	– NDA Outreach brochure and laminated cards
Salem Sound	– Write a Salem Sound NDA application on behalf of the five coastal communities of Salem Sound	– Salem Sound Working Group of harbor masters and boaters; CZM; EPA	– Completed – Salem Sound approved as a NDA	–
Salem Sound	– Continue to distribute educational materials explaining NDA and locations of pump-out facilities and the 3-mile limit for no discharge with the pump-out services (hours, call number, etc) to Salem Sound boaters	– Coast Guard Auxiliary – Harbor masters – Yacht clubs	–	– Marina and Yacht club poster on NDA designation distributed – Public presentation to Palmer Yacht Club
Salem Sound	– Provide classroom boat pump-out curriculum to Coast Guard Auxiliary and Power Squadrons to be included in the regular boater education programs	– Coast Guard Auxiliary	– Completed – PowerPoint presentation that Coast Guard Auxiliary uses in regular boater education classes	– PowerPoint presentation
Upper North Shore	– Develop an outreach and education plan for establishing a NDA for the 8TB coastal communities and begin the data collection necessary for the NDA application	– EPA, CZM, 8T&B towns	– NDA Designation for the Upper North Shore and the Lower Merrimack River	–
CCMP Goal 13: Planning for a shifting shoreline				
All regions and central	– Assist in facilitating regional discussion of measures to adapt to climate change on Cape Cod as part of MBP update of CCMP to address climate change and	– EPA, CRE team, Management Committee, RSPs, EPA, ICLEI, CZM, others	– EPA developing a vulnerability assessment for the salt marsh ecosystem – Participated in workshops	– Conceptual models – Draft scope of work for MBP climate group

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
staff	make MBP a “Climate-Ready Estuary”		<ul style="list-style-type: none"> – Participated in CRE planning – Provided information on regional issues, experts – Presentations made to several groups on climate change adaptation and local/regional efforts – Participated in numerous workshops and conferences to learn more about adaptation planning 	
Cape Cod	– NEW: Assist with Storm Smart Coasts	– CZM Storm Smart Coasts, Town of Falmouth DNR	<ul style="list-style-type: none"> – Expect to transfer work product to other Cape Cod towns as applicable – Two proposals for towns to obtain technical assistance from CZM StormSmart Coasts staff, one was funded 	– Proposals for StormSmart Coasts assistance
Cape Cod	– NEW: Assist towns with pre-disaster hazard mitigation planning	– Towns of Provincetown, Falmouth, Barnstable County Coastal Resources Committee, Cape Cod Commission	– Request to CZM Storm Smart Coasts to facilitate transfer of Storm Smart Coasts work product for Falmouth to other towns	– Letter of support for Provincetown’s application
CCMP Goal 14: Manage local land use and growth				
Salem Sound	– Hold workshops and provide networking opportunities for municipalities regarding locally implementable smart growth tools, including bylaws	– Riverways	– Completed	– MEPA training session for 35 people
Salem Sound	– Take active role in municipal committees such as Open Space and Recreation Committee, Lakes and Ponds Management, and Harbor Plan Implementations	– Committees for Salem Harbor Master Plan, Salem Open Space Plan, Marblehead Open Space Plan	– All master plans completed and approved	–
Salem Sound	– Conduct educational seminars for local resource managers (Con Coms, Cons agents, consultants, city councilors, etc.) and citizens on various topics including current wetland regulations, flooding	– EPA Climate Ready Estuaries; MAPC, CZM	– Climate change adaptation workshop held in March 2009	– Workshop materials

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	solutions, and others			
Salem Sound	– Provide technical assistance to neighborhood groups in Manchester, Danvers, Beverly, Peabody, Marblehead and Salem that are concerned about local conservation issues and development proposals	– Federal Street Neighborhood group; South Salem Neighborhood Ass'n; North Fields Neighborhood Group	–	– ENF comment letters
Salem Sound	– Share SSCW's regional Forest Resource Map, individual maps, and educational materials that highlight the role trees play in slowing and reducing stormwater runoff	– DCR	– Participated in public events and presentations as well as with Greenscapes	–
Salem Sound	– Research potential climate change impacts that will affect local land use, infrastructure and natural resources; conduct workshops on the findings; encourage inclusion of research results into zoning, land use and infrastructure planning and development.	– EPA Climate Ready Estuaries; MAPC, CZM	– Climate change adaptation workshop held in March 2009	– Workshop materials
Salem Sound	– NEW: Discuss land conservation and conservation restrictions for key parcels within Salem Sound	– Essex County Green Belt	– Beginning discussion	–
Salem Sound	– NEW: Promoting environmental responsible flood mitigation	–	– Completed	– ENF comment letter on City of Peabody North River Flood Mitigation Project
Salem Sound	– NEW: Facilitate renovation of a community park along the South River	– SSCW, City of Salem	– Facilitation completed – Design and construction of community pocket park on the South River	–
Salem Sound	– NEW: Facilitate development of a community park along the South River	– Neighborhood residents, City of Salem	– PARC grant received by City to renovate park and river's edge – Two neighborhood meetings	– Plan for Furlong Park improvements
Salem Sound	– NEW: Facilitate development of a community park along the North River at 45 Walnut Street	– Community Development and Planning, City of Peabody	– Neighborhood meeting – City Council meetings –	– Support letters for PARC grant and to City Council
Upper North	– Serve as demonstration site leader for the 8T&B LID demonstration site	– Ipswich River Watershed Ass'n, Greenscapes North Shore, DCR	–	– LID and Greenscapes

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
Shore				demonstration sites
Upper North Shore	<ul style="list-style-type: none"> Present local Sea Level Rise information and work with communities on possible mitigation potentials 	<ul style="list-style-type: none"> 8T&B Communities, MBP 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Outreach information on CRE and sea level rise
Upper North Shore	<ul style="list-style-type: none"> Participate in the EEA Low Impact Development (LID) working group and as a member of the “local implementation” task force 	<ul style="list-style-type: none"> Multiple state, federal, and local partners 	<ul style="list-style-type: none"> On hold due to task force seemingly defunct 	<ul style="list-style-type: none"> LID outreach events and products
Upper North Shore	<ul style="list-style-type: none"> Participate in North Shore Task Force for Smart Growth and Municipal Planning 	<ul style="list-style-type: none"> Southern Essex County Communities, MAPC 	<ul style="list-style-type: none"> Information exchange on a variety of local community issues 	<ul style="list-style-type: none">
Upper North Shore	<ul style="list-style-type: none"> Continue membership on the Great Marsh Coalition for stewardship of the Great Marsh (development of third annual Great Marsh Symposium). 	<ul style="list-style-type: none"> Great Marsh Coalition (MAS, ECGB, ECF, TTOR, ENHC, etc) 	<ul style="list-style-type: none"> Formation of the GM Land Preservation Committee GM Restoration Team 	<ul style="list-style-type: none"> Great Marsh outreach events
Upper North Shore	<ul style="list-style-type: none"> Participate in Essex County Forum Smart Growth Workshops 	<ul style="list-style-type: none"> ECF 	<ul style="list-style-type: none"> Participated in several events 	<ul style="list-style-type: none"> Workshops and outreach events
CCMP Goal 15: Enhancing public education and participation				
Cape Cod	<ul style="list-style-type: none"> Provide outreach to build public support for designation of Cape Cod Bay as a NDA 	<ul style="list-style-type: none"> NDA Working Group (CZM, APCC, MBP, Nantucket Sound Keepers, Barnstable, EPA), Boards of Selectmen, Harbormasters, Barnstable County Coastal Resources Committee 	<ul style="list-style-type: none"> NDA designation Meetings with Harbormasters and Towns 	<ul style="list-style-type: none"> Outreach materials on NDA requirements
Cape Cod	<ul style="list-style-type: none"> Stormwater utilities: Provide outreach to towns, local decision makers, and the public on the need for stormwater financing, particularly stormwater utilities. Start with Phase II NPDES coordinators Investigate combined utility for wastewater and stormwater Continue to find funding for stormwater utility outreach program Continue to build resource collection Provide two outreach workshops with invited speakers and start developing 	<ul style="list-style-type: none"> Cape Cod Commission, Waquoit Bay Coastal Training Program, CZM NPS program, Barnstable County Coastal Resources Committee, MET, private foundation 	<ul style="list-style-type: none"> First workshop completed, outreach ongoing Developed Stormwater Management Needs Survey for Towns Conducted Survey and obtained 33% response from towns Held Stormwater Financing Workshop in January 2009 As a direct immediate result of workshop, one town (Yarmouth) applied for 	<ul style="list-style-type: none"> Stormwater Utility Resources on CD Web page on APCC website

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	Model Stormwater Utility Plan		regional funds to conduct Stormwater Utility Feasibility Study in January 2009 <ul style="list-style-type: none"> - Convening meeting with Phase II coordinators to define regional interest and regional needs to prepare for grant writing 	
Cape Cod	<ul style="list-style-type: none"> - Wastewater outreach - APCC continues outreach as a partner with the Water Protection Collaborative and the County 	<ul style="list-style-type: none"> - Barnstable County Water Protection Collaborative, Waquoit Bay NERR and Coastal Training Program, MET 	<ul style="list-style-type: none"> - Workshop held, outreach ongoing - Wastewater Financing workshop in Spring 2008 - Ongoing participation in WPC - "Train the trainer" workshops in early 2008 	<ul style="list-style-type: none"> - Workshop materials
Cape Cod	<ul style="list-style-type: none"> - Growth management, APCC continues its work on supporting growth management initiatives and outreach, working with the Business Roundtable and others. 	<ul style="list-style-type: none"> - Cape Cod Business Roundtable, Towns of Wellfleet and Brewster 	<ul style="list-style-type: none"> - Participation in and staff support for the Cape Cod Business Roundtable meetings held on a regular basis - Passage of zoning reform bylaws in Brewster and Wellfleet 	<ul style="list-style-type: none"> -
Cape Cod	<ul style="list-style-type: none"> - Continue building support for herring run stewardship 	<ul style="list-style-type: none"> - DMF, NOAA Habitat Restoration staff, Town Herring Wardens and DNR directors in Brewster, Orleans, Wellfleet, Chatham, Harwich, Sandwich, Harwich Conservation Trust, Brewster Alewife Committee, Orleans Waterways, Shellfish Advisory Committee, GOM Council, private foundations, other MBP regions, MET 	<ul style="list-style-type: none"> - Planning for 3 new herring count programs in Wellfleet, Chatham, and Harwich - Received \$20K funding from private foundation for climate change monitoring of fish runs by volunteers 	<ul style="list-style-type: none"> - Herring monitoring data for Brewster and Orleans - Proposals for funding fish run monitoring by volunteers, (GOM Council, MET, others) - Presentation at Cape Cod Natural History Conference on Brewster program
Cape	<ul style="list-style-type: none"> - Stormwater outreach: Work with 	<ul style="list-style-type: none"> - Town of Barnstable DPW, 	<ul style="list-style-type: none"> - Participation in Think Blue 	<ul style="list-style-type: none"> - Participation at

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
Cod	MBEA to distribute Think Blue outreach materials promoting stormwater management	MBEA	event/booth at water fair – Distribution of outreach materials at different venues	water fair
Cape Cod	– Provide editorial support for Greenscapes, an outreach program that teaches landowners about environmentally friendly products and methods to use on their properties	– MBEA	– Offered assistance with editing in 2007 and 2008, offer was not taken up	– Greenscapes materials
Cape Cod	– Provide website and newsletter information on various MBP projects	– APCC	–	– Webpages on MBP, MBP Cape Cod region Achievements, Stormwater Utilities, Herring Runs and Volunteer Counts, and other MBP activities
Cape Cod	– Continue to support and encourage local coastal organizations to achieve CCMP goals for Cape Cod Bay	– Barnstable County Coastal Resources Committee, Cape Cod Commission, Cape Cod Hook Fishermens Ass'n, Compact of Cape Cod Conservation Trusts, CZM, NRCS, NDA Working Group, – Orleans Shellfish and Waterways Advisory Committee, Orleans Blue Pages, Waquoit Bay NERR Coastal Training Program	– Co-sponsorship of Wastewater Financing Workshop and Stormwater Financing Workshop with WBNERR CTP – NRCS Cape Cod Water Resources Restoration Partnership coalition-building – Assistance with Orleans Blue Pages, a 50-page guide on protecting water quality – CRC Mission statement, Work Plan, workshops and meetings	– Letters of support for open space acquisition grant applications – NDA outreach materials – Letters of support for federal infrastructure funding for restoration projects – Orleans Blue Pages
Cape Cod	– Continue to support and build capacity of the Barnstable County Coastal Resources Committee, the MBP Local Governance Committee for Cape Cod, and to implement its work	– Barnstable County CRC (representatives from 15 towns, CZM, NRCS, APCC, Barnstable County Water Protection Collaborative, Barnstable County Extension, County Shellfish Advisory	– Reconvened group in May 2008, regular meetings now ongoing – Full CRC meetings in April, July and October 2008 to discuss new CRC Work Plan, hear about state Ocean	–

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
		Committee, Cape Cod Commission, Barnstable County Commissioners	Management Plan from state officials, exchange information, hear from ad hoc county Dredging Working Group concerning towns dredging needs – Monthly Executive Committee meetings to plan work and provide MBP governance	
Cape Cod	– NEW: Participate in preparing 2009 State of the Bays report from the MBP	– DMF, EPA Region 1 NDA coordinator, provided information on NDAs, CZM	– Draft completed	– Two draft State of the Bays chapters on NDAs and Diadromous Fish
Cape Cod	– NEW: Professional development.	– Not applicable	– Attended workshop on “How to Manage a Dam Removal Project”, November 2008 – Attended “Restore America’s Estuaries” conference in October 2008 – Attended EPA Climate Change forum at UNH – Attended workshop on emerging pollutants in wastewater at Waquoit Bay NERR in fall 2008 – Attended Storm Smart Coasts workshop in 2008	– Participation in various events
South Shore	– Continue to facilitate the South Coastal Watershed Network via a listserve and Green Communities Speaker Series	–	– On hold	–
South Shore	– Help organize and implement annual NSRWA outreach events, such as the Great River Race, Kayak Expo, and River Camp	– South Shore YMCA (camp logistics), local volunteers	–	– Public events
South Shore	– Organize spring herring counts with volunteers.	– DMF (protocols), Towns of Pembroke, Marshfield, Norwell, and Hanover (support)	–	– Herring count data

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
South Shore	– Participate in discussions and planning for Think Blue outreach campaign with MBEA.	–	– On hold	–
South Shore	– Write multiple press releases about Mass Bays Program projects in the South Shore region	–	–	– Newspaper articles, newsletter articles, e-mailed press releases
South Shore	– Maintain NSRWA website and member listserv	–	–	– Website and listserve
South Shore	– NEW: Work with MBP to produce State of the Bays	–	–	– State of the Bays report
South Shore	– NEW: Provide educational materials and lessons for local schools	– School systems of regional towns (support/logistics)	–	– Multiple watershed science presentations
Salem Sound	– Hold annual North River Awareness Week, designed to highlight the ecological, biological, and historical, and recreational values of the North River, and the role of neighborhood residents in shaping the River’s future	– DMF; Witchcraft Heights School, businesses along the river	– Completed	– Public involvement and awareness of the North River
Salem Sound	– Conduct Natural History Outings for residents of the region through field trips designed to increase awareness and understanding of the watershed’s natural resources	– General public and SSCW members	–	– Four field trips to rivers and salt marshes
Salem Sound	– Hold annual Appreciation Night to celebrate the role volunteers and members play in protecting the natural resources of the region	– Peabody Essex Museum, Salem State College, general public and SSCW members	– Completed	– Evening event
Salem Sound	– Publish and distribute newsletter, Salem Sound Monitor, and monthly email newsletter utilizing a theme-based approach, in which each issue was designed to increase public awareness and understanding of an ecological topic or issue with local relevance	– SSCW members	– Outreach ongoing	– Monthly e-newsletter to over 500 people
Salem Sound	– Provide technical assistance and classroom instruction to area teachers and students studying watersheds and non-	– Salstonstall School, Brookwood School, Endicott College	– Stenciling – Stormwater learning and storm drains stenciled with	– Stormdrains stenciled at three sites

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
	point source pollution, including storm drain stenciling projects		message: Don't Pollute. Water goes to the Ocean	
Salem Sound	– Expand and augment the Think Blue outreach campaign with MBEA	– MBEA, Sara Grady	– Completed	– Presented Think Blue outreach at Swim & Fin OceanFest
Salem Sound	– Maintain SSCW website and listserve to bring awareness of Salem Sound and its rivers and how people can become part of the environmental solution	–	–	– Website that provides environmental information and volunteer opportunities for the public
Salem Sound	– Hold a harbor swim and public festival, Swim & Fin OceanFest, to celebrate and educate the public on clean water and their role in keeping waters clean	– Local businesses; Coast Guard Auxiliary, Ocean Rivers Institute, DMF, Peabody Essex Museum	– Completed in 2008, but ongoing annually	– Event: 55 volunteers, 50 swimmers, 28 kayakers and many festival goers
Salem Sound	– Eelgrass awareness	– DMF, NOAA, EPA, MAS: all guest speakers	– Completed	– Presentation at Beverly Library
Upper North Shore	– Coordinate, schedule and chair Eight Towns and the Bay local governance committee meetings	– 8T&B communities, all partners	– New membership – Development of Speaker Series	– 10 +/- meetings of 8T&B Committee per year
Upper North Shore	– Develop (with partners) the third annual Great Marsh Symposium	– Great Marsh Coalition	– Assisted with preparations for Great Marsh Symposium	–
Upper North Shore	– Present Greenscapes 101 to area communities and environmental organizations	– Greenscapes communities, local civic groups, area nonprofits	–	– Greenscapes outreach and education
Upper North Shore	– Participate in Water Issues workshop for state regional planning agencies	– Regional planning agencies	– Integration of regional water issues and projects	–
Central staff	– Work with MBEA on Think Blue	– MBEA	– No collaboration due to inter-organization conflict	–
Central staff	– Communications and Outreach Plan – Continue to update and distribute its suite of outreach materials, including a review of the past year's progress	– MBEA, regional service providers	– Plan not done due to inter-organization conflict	–
Central	– MBP will continue to distribute its	–	– Done through autumn 08,	–

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
staff	quarterly e-newsletter and expand the mailing list		On hold pending issue resolution with EEA IT	
Central staff	- Expand website to include a new State of the Bays section highlighting the 14 EPA-approved indicators	- Staff, partners	- In progress	-
MBEA	- Work with Dwell Creative to pilot the “21 Day Challenge” social marketing tool for both outreach campaigns	- Dwell Creative	- Initiated, some progress - Preliminary design - Dwell (now SOAP Group) seeking additional funding	-
MBEA	- Continue to distribute periodic campaign e-newsletters, including the “Stormy Report” on a quarterly basis, and Greenscapes e-newsletters on a mostly monthly basis	-	- E-newsletters circulated - Wrote/distributed seven e-newsletters and managed 1500 subscribers (increase of 300 from previous year)	- E-newsletters to 1500+ subscribers
MBEA	- Recruit Think Blue Teams and team members in partnership with MBP regional technical assistants.	- MBP	- On hold	-
MBEA	- Work with our MBP Cape Cod regional staff to begin planning an expansion of Greenscapes to the Cape Cod region.	- MBP/APCC	- Cape region decided not to pursue Greenscapes	-
MBEA	- Continue to seek out and exhibit both Think Blue and Greenscapes at municipal and professional conferences	- MBP	- Attended MACC, March 2008, presented Think Blue Toolbox - Improved design of TB toolbox, but project put On hold - Continued facilitation of Greenscapes Coalition	- Improved TB toolbox
MBEA	- Continue to exhibit Think Blue and Greenscapes at suitable venues for reaching large numbers of citizens, such as local and regional festivals, meetings, and other events	- Pioneer Valley Planning Commission, Neponset River Watershed Ass’n (new partner), City of Cambridge/DPW, Town of Barnstable, Emmanuel College (new partner)	- Reached approximately 58,000 participants total five events - Average 23% increase website hits for three days post-event - Press in The Boston Globe - Photos with Mayor Menino	- New outreach materials - TB: September 2008, Exhibit loan to The Big E - TB: August 16, 2008 Dorchester Beach Festival @ Malibu Beach - TB: June 2008, Cambridge Science

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
				Festival – TB: May 2008, Exhibit loan Barnstable Maritime Festival – TB: April 2008, Children’s Museum Earth Day Celebration
CCMP Goal 16: Manage marine invasive species				
Cape Cod	– Continue to foster information exchange and coordination between scientists studying invasive species (tunicates), volunteer monitors, the public, and decision makers.	– Not applicable.	– No work on tunicates in 2008	–
Cape Cod	– NEW: map invasive Phragmites as part of salt marsh restoration planning	– Town of Brewster DNR, partner – GOM Council / NOAA Habitat Restoration Partnership, grant	– Map and report submitted to GOM Council / NOAA Habitat Restoration Partnership	– Map and final report on extent of Phragmites in Stony Brook, Brewster
South Shore	– Continue volunteer monitoring for invasive species as part of larger CZM monitoring effort	– Scituate, Duxbury, Plymouth Harbormasters, 4 th Cliff Air Force Recreation Area (support), CZM (protocols), MIT Sea Grant (database management)	–	– Marine invasives survey data
South Shore	– Work with local volunteers to locate and identify invasive wetland plants	–	– On hold - not currently active, pending funding	–
Salem Sound	– Continue to develop and distribute public education material on invasive species (completed and ongoing).	– MIT Sea Grant, CZM Aquatic Nuisance Coordinator	– Revised 20 MIS ID Cards	– Two different MIS potential invader posters
Salem Sound	– Train and manage data collection by volunteers; maintain number of invasive species monitoring volunteers, engage local colleges and summer interns.	– MIT Sea Grant - database, CZM Aquatic Nuisance Coordinator, data analysis, sampling equipment	– Collected and reported data from nine sites with sixteen volunteers	– Volunteer monitoring data
Salem Sound	– Participate in the international SETL Project, which collects data on marine fouling organisms from sites across the temperate world.	– Salem State College – Endicott College – SETL Project	– Monitoring settling plates quarterly for species ID and abundance – Data given to the international SETL Project	– Monitoring data

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
Salem Sound	– Continue to work with MIT Sea Grant Program and CZM's invasive species programs.	– MIT Sea Grant, CZM Aquatic Nuisance program	– Training of new volunteers	– Educational materials – Volunteers trained
Salem Sound	– Contribute location and presence of MIS to central databases, such as SETL Project, MITIS, and MIMIC.	– MIT Sea Grant, CZM Aquatic Nuisance program, SETL Project	– Data entered into databases and delivered	– Monitoring data
Salem Sound	– Study the newly settled area by the invasive <i>Didemnum vexillum</i> at Beverly Harbor	– CZM Aquatic Nuisance program	– Report after year-long study of this species at Beverly Harbor at scientific conference	–
Central staff	– Work with the state Aquatic Invasive Species Working Group to implement priority actions from the state Management Plan	– CZM and other state agencies and non-profit partners	– Draft revisions to state management Plan completed and ongoing plan implementation continues	–
Central staff	– MBP will work with MIT Sea Grant to finish data analysis and prepare a final report based on the Rapid Assessment Survey for marine invasive species conducted in July 2007	– MIT Sea Grant	– Summary of RAS to be included in 2009 State of the Bay Report	–
Central staff	– Develop and implement a rapid response protocol in the Northeast	– CZM and the Massachusetts Aquatic Invasive Species Working Group	– Completed	– Early Detection and Rapid Response protocol, available on CZM web site
Central staff	– Co-chair for the Science and Technology Committee of the Northeast Aquatic Nuisance Species panel	– Other New England states and Canadian Provinces and federal partners, including US FWS and state partners, including CZM	– Revised NEANS by laws and FY10 Work Plan – Completed accounting and tax requirements for nonprofit NEANS Council	– Draft Work Plan for Science and Technology Committee
CCMP Goal 17: Monitor marine waters				
Cape Cod	– Convene working group to identify and prioritize climate change issues to address for Cape Cod	– EPA ORD / CRE pilot project	– Plan for MBP Climate Change Working Group	–
Cape Cod	– NEW: Monitor climate change impacts on fish runs	– MBP regions, partners – DMF - partner – Private foundation, funding support – MET, potential funding support	– Agreement with DMF to partner on monitoring and development of outreach and database – Proposals for funding climate change monitoring of fish runs in the MBP	– Funding proposals

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
			region	
Cape Cod	<ul style="list-style-type: none"> NEW: monitor climate change effects on salt marshes 	<ul style="list-style-type: none"> WRP MBP Climate Ready Estuaries Pilot Project 	<ul style="list-style-type: none"> Full proposal for \$20K submitted in March to map and monitoring of coastal embayments where salt marsh retreat can occur as sea level rises due to climate change 	<ul style="list-style-type: none"> Funding proposal
South Shore	<ul style="list-style-type: none"> Assist Mass. Bays Monitoring Scientist with monitoring in South Shore waters 	<ul style="list-style-type: none"> CZM, regional communities 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Water quality data
South Shore	<ul style="list-style-type: none"> Continue work with the Cohasset Center for Student Coastal Research to monitor the water of Cohasset and educate students about ecology and water quality monitoring 	<ul style="list-style-type: none"> Cohasset Center for Student Coastal Research, (field and lab work) Town of Cohasset, CZM, EEA, EPA (support) 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Water quality data, wetland monitoring data State of the Harbor report
Central staff	<ul style="list-style-type: none"> Coordinate marine monitoring in the GOM (GOM) Region 	<ul style="list-style-type: none"> MBP, DMF, GOMC MBP Central Staff 	<ul style="list-style-type: none"> Serve as MBP liaison to the GOMC's ESIP Developed Gulfwatch database and uploaded to GOMC server Currently developing National Coastal Assessment contaminants in sediments for availability to ESIP 	<ul style="list-style-type: none"> Gulfwatch DB
Central staff	<ul style="list-style-type: none"> Seek resources to implement assessment type monitoring using (and modifying as necessary) the protocols of EPA's National Coastal Assessment Program Track MWRA's outfall monitoring Serve as the lead contact for the Gulfwatch contaminants monitoring program 	<ul style="list-style-type: none"> EPA, DEP, CZM, UNH, MWRA, Weir River Watershed Ass'n 	<ul style="list-style-type: none"> Applied for DEP grant to monitor, analyze and synthesize organic contaminants in lower Boston Harbor watershed Distributed reports 	<ul style="list-style-type: none"> RARGOM report to GOMC, Gulfwatch Contaminants Subcommittee response to GOMC Funding application
Central staff	<ul style="list-style-type: none"> Develop a Massachusetts Bays Embayments/Estuaries Atlas 	<ul style="list-style-type: none"> CZM, MBP, MIT Sea Grant, MWRA, EPA Narragansett Lab 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> Embayment Atlas Strategic Plan Proposal draft to NCEAS
Central staff	<ul style="list-style-type: none"> Embayment Monitoring 	<ul style="list-style-type: none"> CZM, UMass/Boston, Towns of Cohasset, Hull, Marshfield, 	<ul style="list-style-type: none"> Monitoring conducted in 5 subsystems: Cohasset Little 	<ul style="list-style-type: none"> Mill Pond Study design, QAPP, and

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
		Scituate, and Gloucester, NOAA	Inner Harbor; Masquashcut Pond, Scituate; Green Harbor, Marshfield; Mill Pond, Gloucester, and Straits Pond, Hull, Hingham, and Cohasset	initial draft
Central staff	- Develop new State of the Bays report	- MBP, CZM, WHOI, MIT Seagrant, DMF, Center for Coastal Studies, MWRA, DPH	- 80% of draft submissions received	-
	- Develop MB-specific synthesis for NCA and Gulfwatch monitoring initiatives. Data summaries, activity-to-date, and analysis of the National Coastal Assessment and Gulfwatch monitoring activities will be drafted for posting on MBP website	- MBP, GOMC, DMF, UNH	- Compiled all contaminants data in mussels for Gulfwatch in preparation for synthesis for State of Bays report - Obtained funding for compiling and reporting on GW 2007 results	- Gulfwatch 2006 Data Report
SP Objective II 1: Strengthen the identity and influence of the MBP				
Central staff, regions	- Outreach to promote identity of MBP	- Regional partners, MBEA	- Website updates, legislative outreach, newsletters, contributions to CZ Mail and other partner news sources	- Website updates - Articles/news items prepared
SP Objective II 2: Identify and pursue alternative funding				
MBEA	- Pursue partnership with the MET	- MBP	- On hold	-
MBEA	- Work with the Executive Office of Environmental Affairs to ensure the assignment of state match funds to the MBP	- MBP/All regional partners	- Initiated, but not successful - Information regarding MBP distributed to legislators, state agencies, funding restored	- Fact sheet
MBEA	- Implement the marketing strategy developed in conjunction with the Northeastern graduate interns	- Greenscapes Coalition	- Managed mailing of 100k+ Guides on behalf of 3 regions - Distributed approx. 100 Lawn Signs in response to requests from website/e-news - Distributed 7 Sprinkler Timers - Revised and distributed	- 2008 guide - 2009 calendar - Lawn signs - Medallions

<i>Region</i>	<i>Activity</i>	<i>Partners</i>	<i>Milestones</i>	<i>Outputs</i>
			approx. 500 GS Guides – Developed GS calendar for 09 – Created ID medallions	
MBEA	– Strategically seek corporate partnerships to enhance our two outreach campaigns	– Greenscapes Coalition – Prides Corner Farms (American Beauties), New England Rainbarrel, Smart Watering Company, Agresource, and Greenscapes Lawn & Garden	– Promotional materials developed – Recruited five Underwriters donating over \$13,000 of in-kind services shared by partners – Drafted MOU for ‘09 partnership with American Beauties	– MoU with underwriters
SP Objective II 3: Ensure effectiveness of MBP structure for managing implementation				
Central staff	– MBP will work with the MBEA and its board to ensure the smooth growth of both organizations		– On hold pending resolution of interagency conflict	
Central staff	– MBP will continue the process to revisit the CCMP Action Plans to update and revise Actions to consider climate-related impacts to the MBP region		– On hold until FY10	

2. Support of CWA core program

<i>Core program</i>	<i>Role</i>	<i>Level</i>
Strengthening water quality standards	– Gather and share water quality and habitat data	Primary
	– Work with state agencies on revisions and reporting requirements for state water quality standard	Significant
	– Work to develop methods for assessing wetlands to support federal water quality standard requirements	Primary
Improving water quality monitoring	– Provide guidance on monitoring protocols, including development of QAPPs	Significant
	– Participate in local and regional forums related to data collection and reporting	Significant
Developing TMDLs	– Support DEP efforts by providing technical assistance, water quality data, and review of draft documents	Support
Controlling NPS pollution on a watershed basis	– Gather and share water quality and habitat data	Support
	– Lead and/or participate in wetland restoration activities	Primary
	– Work extensively on stormwater outreach programs	Significant
	– Assist communities in applying for grants for NPS projects	Primary
	– Participate on grant review committees for 319 and Coastal Pollutant Remediation grants	Significant
	– Delivered presentations related to topics such as Low Impact Development that reduce the potential for NPS pollution	Primary
	– Provide technical assistance to local governments on meeting Phase II permit requirements, including conducting outreach, facilitating public participation, outfall monitoring, and inventorying infrastructure	Significant
Strengthening NPDES permits	– Conduct workshops about the nature and worth of stormwater utilities	Significant
	– Work towards NDA designations throughout the MBP region; in this reporting period, three more NDAs were declared in the MBP region leaving one remaining designation, which is anticipated in late 2009	Primary
Supporting sustainable wastewater infrastructure	– Develop and distribute outreach materials to inform people about the NDA and associated requirements	Primary
	– Gather and share water quality and habitat data	Primary
	– Monitor MWRA data	Primary
	–	Significant

3. Impacts of external factors

As outlined in section A3, above, the MBP continues to make significant progress in protecting and restoring the natural systems of Massachusetts and Cape Cod Bays. MBP continues to enjoy strong partnerships with local planning and conservation organizations, leverages considerable funds to support these initiatives, and plays a lead role in ongoing conservation efforts.

Though MBP claims many successes during the previous 12 months, the year was marked by substantial turbulence. Perhaps the greatest challenge was the substantial rift that formed between MBP and its non-profit counterpart, the Massachusetts Bays Estuary Association (MBEA). Miscommunications and misunderstandings between the two organizations led to administrative and project management difficulties, resulting in diminished capacity to achieve our stated goals for the year.

The rift led to intervention by both EPA and MBP's host agency the Massachusetts Office of Coastal Zone Management. This intervention resulted in the appointment of a new Executive Director for MBP, as well as increased organizational independence of MBEA from MBP.

MBP and MBEA are currently working amicably to formalize and articulate their relationship and respective roles. This relationship is being outlined in a Memorandum of Understanding (MOU). However, both organizations expect that this relationship will evolve and improve over time. MBEA will retain a seat on the MBP Management Committee, and will likely play an important role in implementation of the CCMP for the Massachusetts Bays.

The year was also marked by the loss of state cash match for the program. The loss of funding was due, in part, to the economic downturn and significant state budget cuts. MBP does not anticipate that this funding will be restored for FY10. However, the program recognizes the importance of a strong and positive image in order to secure and retain funding, and MBP will consciously work to strengthen its presence within state government during FY10.

Funding shortfalls were not limited to state government, and program staff and regional service providers had to work harder in FY09 to obtain competitive grants. As mentioned above, the program has made strengthening its identity a priority in FY10. In addition, MBP will develop a finance plan outlining a long-term strategy for acquiring support for the program and its CCMP implementation efforts.

Finally, MBP program staff and RSPs face the ongoing challenge of securing project support and in-kind services from overly burdened state and local employees. Cooperation of state and local environmental professionals for CCMP implementation is critical. However, current low staffing levels and fiscal constraints can make collaboration difficult. MBP recognizes the importance of economic arguments for leveraging state and local resources, including in-kind services, and will work to incorporate the valuation of coastal resources into its Work Plan as a means of increasing local interest in conservation efforts.

D. CWA Funds Used for Travel and National Meeting Attendance
(State FY09)

<i>Position</i>	<i>Date</i>	<i>Amount</i>
Executive Director		
- ANEP directors meeting, Boulder, CO	Nov 9 - 11	\$1,012
- Northeast Estuarine Research Society meeting, Block Island, RI	Oct 16 - 17	\$375
- ANEP/NEP winter meeting ,Washington D.C.	Feb 22 - 25	\$960
- Local travel		\$304
Marine Monitoring Scientist		
- ANEP/EPA fall meeting, New York, NY	Nov 16 - 19	\$370
- Local travel		\$234
Outreach and Policy Coordinator		
- North American Association for Environmental Education annual conference, Wichita, KS	Oct 16 - 19	\$325
- ANEP/EPA fall meeting, New York, NY	Nov 16 - 19	\$390
- ANEP/NEP winter meeting, Washington D.C.	Feb 22 - 25	\$978
- Local travel		\$491
Anticipated Travel		
- Local and regional meeting and events	April - June	\$1,500
TOTAL TRAVEL		\$6,939